GE Medical Systems

# Technical Publication

## Direction EP194516
## Revision 01

## GE Medical Systems
## HP Deskjet 6127 Installation Manual for EchoPAC PC and Vivid 7

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# *IMPORTANT PRECAUTIONS*

## LANGUAGE

- **THIS SERVICE MANUAL IS AVAILABLE IN ENGLISH ONLY.**
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- **CE MANUEL DE MAINTENANCE N'EST DISPONIBLE QU'EN ANGLAIS.**
- **SI LE TECHNICIEN DU CLIENT A BESOIN DE CE MANUEL DANS UNE AUTRE LANGUE QUE L'ANGLAIS, C'EST AU CLIENT QU'IL INCOMBE DE LE FAIRE TRADUIRE.**

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**AVISO**

- **ESTE MANUAL DE SERVICIO SÓLO EXISTE EN INGLÉS.**
- **SI ALGÚN PROVEEDOR DE SERVICIOS AJENO A GEMS SOLICITA UN IDIOMA QUE NO SEA EL INGLÉS, ES RESPONSABILIDAD DEL CLIENTE OFRECER UN SERVICIO DE TRADUCCIÓN.**
- **NO SE DEBERÁ DAR SERVICIO TÉCNICO AL EQUIPO, SIN HABER CONSULTADO Y COMPRENDIDO ESTE MANUAL DE SERVICIO.**
- **LA NO OBSERVANCIA DEL PRESENTE AVISO PUEDE DAR LUGAR A QUE EL PROVEEDOR DE SERVICIOS, EL OPERADOR O EL PACIENTE SUFRAN LESIONES PROVOCADAS POR CAUSAS ELÉCTRICAS, MECÁNICAS O DE OTRA NATURALEZA.**

**ATENÇÃO**

- **ESTE MANUAL DE ASSISTÊNCIA TÉCNICA SÓ SE ENCONTRA DISPONÍVEL EM INGLÊS.**
- **SE QUALQUER OUTRO SERVIÇO DE ASSISTÊNCIA TÉCNICA, QUE NÃO A GEMS, SOLICITAR ESTES MANUAIS NOUTRO IDIOMA, É DA RESPONSABILIDADE DO CLIENTE FORNECER OS SERVIÇOS DE TRADUÇÃO.**
- **NÃO TENTE REPARAR O EQUIPAMENTO SEM TER CONSULTADO E COMPREENDIDO ESTE MANUAL DE ASSISTÊNCIA TÉCNICA.**
- **O NÃO CUMPRIMENTO DESTE AVISO PODE POR EM PERIGO A SEGURANÇA DO TÉCNICO, OPERADOR OU PACIENTE DEVIDO A‘ CHOQUES ELÉTRICOS, MECÂNICOS OU OUTROS.**

**AVVERTENZA**

- **IL PRESENTE MANUALE DI MANUTENZIONE È DISPONIBILE SOLTANTO IN INGLESE.**
- **SE UN ADDETTO ALLA MANUTENZIONE ESTERNO ALLA GEMS RICHIEDE IL MANUALE IN UNA LINGUA DIVERSA, IL CLIENTE È TENUTO A PROVVEDERE DIRETTAMENTE ALLA TRADUZIONE.**
- **SI PROCEDA ALLA MANUTENZIONE DELL’APPARECCHIATURA SOLO DOPO AVER CONSULTATO IL PRESENTE MANUALE ED AVERNE COMPRESO IL CONTENUTO.**
- **NON TENERE CONTO DELLA PRESENTE AVVERTENZA POTREBBE FAR COMPIERE OPERAZIONI DA CUI DERIVINO LESIONI ALL’ADDETTO ALLA MANUTENZIONE, ALL’UTILIZZATORE ED AL PAZIENTE PER FOLGORAZIONE ELETTRICA, PER URTI MECCANICI OD ALTRI RISCHI.**

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**For USA Only**

# Revision History

| Revision | Date | Reason for change |
|---|---|---|
| 01 | July 2003 | First version of manual |
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# List of Effected Pages

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| All pages | 01 | | | | |
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# Chapter 1 Introduction

## Section 1-1 Overview

This chapter gives an overview of this printer delivery of furnished materials and includes a printer connections overview.

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## Section 1-2 Time to complete

One person 30 minutes.

## Section 1-3 Environmental dangers

⚠ **WARNING** ***ALL DEVICES MEETING IEC60950 MUST BE KEPT OUTSIDE OF THE PATIENT ENVIRONMENT, AS DEFINED IN IEC60601-1-1, UNLESS IT, ACCORDING TO IEC60601-1-1, IS EQUIPPED WITH:***

***A) ADDITIONAL PROTECTIVE EARTH.***

***OR:***

***B) EXTRA ISOLATING TRANSFORMER.***

Commercial devices such as laser cameras, printers, VCRs and external monitors, usually exceed allowable leakage current limits and, when plugged into separate AC outlets, are in violation of patient safety standards. Suitable electrical isolation of such external AC outlets, or providing the device with extra protective earth, will be required in order to meet UL2601-1 and IEC60601-1 standards for electrical leakage.

## 1-3-1 Patient vicinity UL 2601-1

2.12.101

In area in which patients are normally cared for, the patient vicinity is the space with surfaces likely to be contacted by the patient or attendant who can touch the patient. This encloses a space within the room 1.83 m (6 ft.) beyond the perimeter of the bed (examination table, dental chair, treatment booth, and the like) in its intended location, and extending vertically 2.29 m (7.5 ft.) above the floor.

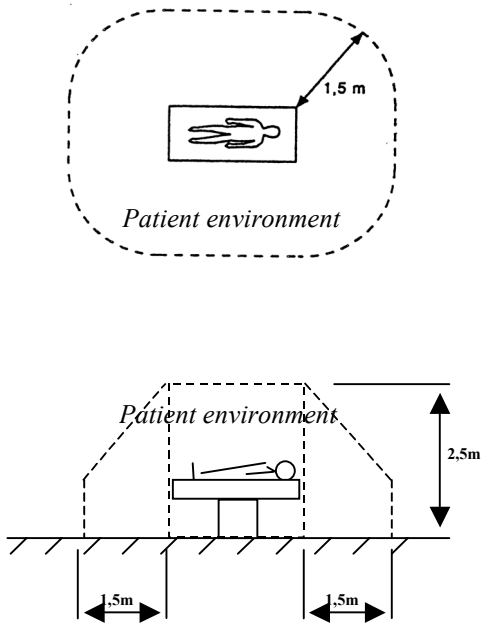


**Figure 1-1 Patient safety information**

## 1-3-2 Patient environment IEC 601-1

Sub clause 2.204

Such an area is an environment in which medical diagnosis, monitoring or treatment is carried out. It is very difficult to attach unique dimensions to the PATIENT ENVIROMENT.

In practice a distance of 2,5 m (8.2 ft.) above the floor on which the medical personnel stand and a horizontal distance of 1,5 m (4.9 ft.) have justified themselves as indicative of the dimensions of the Patient Environment.

The patient environment/vicinity will be depicted as a dashed line in this procedure. See example above.

# Section 1-4
# Furnished Materials

**Table 1-2 Furnished Materials (Part Number EP100516)**

| QTY | Part Name | Part Number | Comments | FRU |
|---|---|---|---|---|
| 1 | HP Deskjet 6127 Printer | 066E0414 | | 1 |
| 1 | Printer Software CD | Part of 066E0414 delivery | | N |
| 1 | Power Cable, USA | Part of 066E0414 delivery | | 1 |
| 1 | Power Cable, Europe | Part of 066E0414 delivery | | 1 |
| 2 | Ethernet Cable | 070D2950 | | 2 |
| 1 | Ethernet Cable, twisted | 070D2951 | | 2 |
| 1 | Application Software | FC200220-10 | 2.3.0 SW | 2 |
| 1 | Application Software | FC200360-01 | 3.0.0 SW | 2 |
| 1 | BEP1 System Software for Vivid 7 | FC200165-05 | 1.3.3 SW | 2 |
| 1 | BEP2 System Software for Vivid 7 | FC200265-04 | 1.3.3 SW | 2 |
| 1 | System SW for EchoPAC PC on DW300 | EP200435-06 | 1.3.3 SW | 2 |
| 1 | System SW for EchoPAC PC on EVO W4000 | EP200458-06 | 1.3.3 SW | 2 |
| 1 | System SW for EchoPAC PC on HPXW4100 | EP200590-01 | 1.3.3 SW | |
| 1 | HP DeskJet 6127, IMAN | EP194516 | 01 | N |

## 1-4-1 Upgrade Software

Appliactions SW 2.3.0 CD combined with correct 1.3.3 System SW CD ( See table above) upgrade all older sw, before SW v 2.3.0. The Upgrade adds the Printer Driver for this printer to the EchoPAC PC Computer or Vivid 7 Scanner and repairs some reported errors in earlier SW versions.

## 1-4-2 New Software

The v3.0.0 Software is included in this kit only for use if, for some reason, there is a need to re-install the SW. It is not intended for other puposes.

# Section 1-5
# Overview, Printer Connection

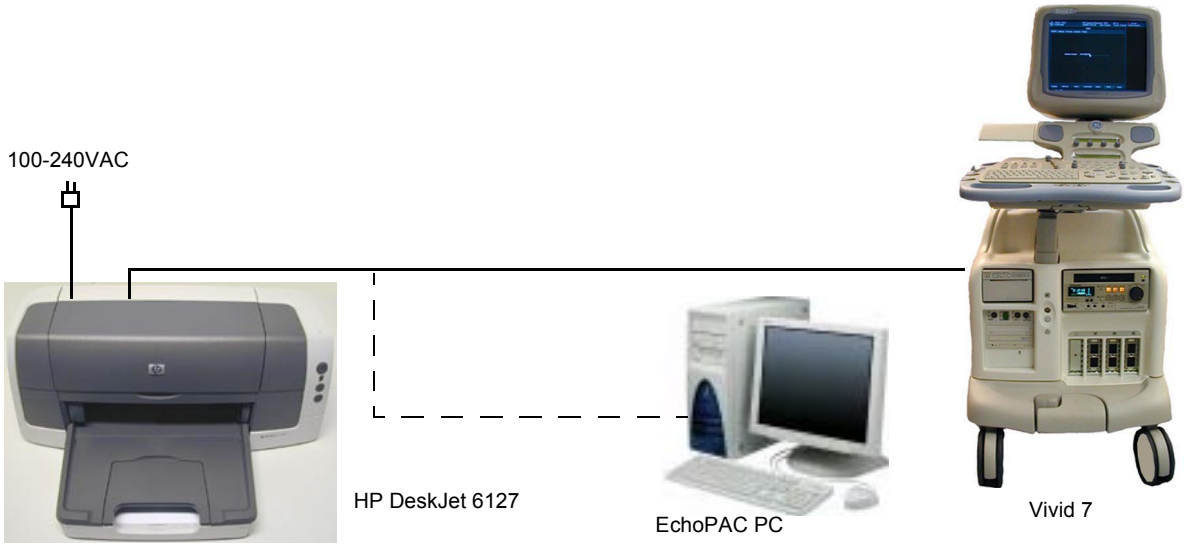


**Figure 1-2 Overview of Printer directly connected to Vivid 7 or EchoPAC PC**

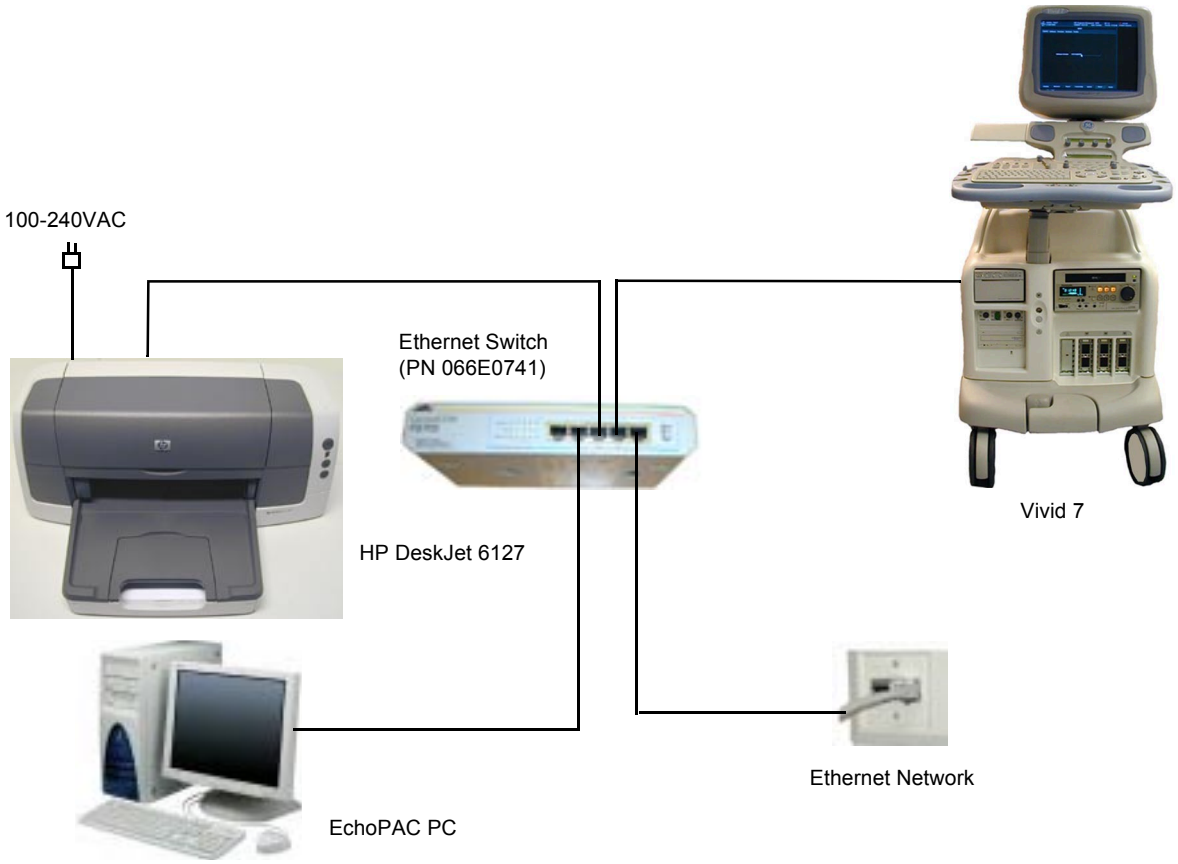


**Figure 1-3 Overview. Printer connected via network**

# Chapter 2
# Vivid 7 Printer Installation

## Section 2-1
## Overview

This chapter covers the installation and setup of the HP Deskjet 6127 Printer.

**Table 2-1 Main Sections in Chapter 2**


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# Section 2-2
# Unpacking

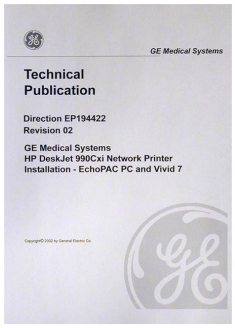
1.) Unpack the printer with accessories.
2.) Make sure that the delivery is complete. See Table 1-2 on page 1-3 , and Figure 2-1 on page 2-2 .

Software

SW Installation CDs

Power Cable US

Ethernet Cable




Installation Manual

Power Cable Europe standard

Twisted Ethernet Cable

**Figure 2-1 Furnished Materials**

# Section 2-3
# Hardware Overview

## 2-3-1 HP DeskJet 6127

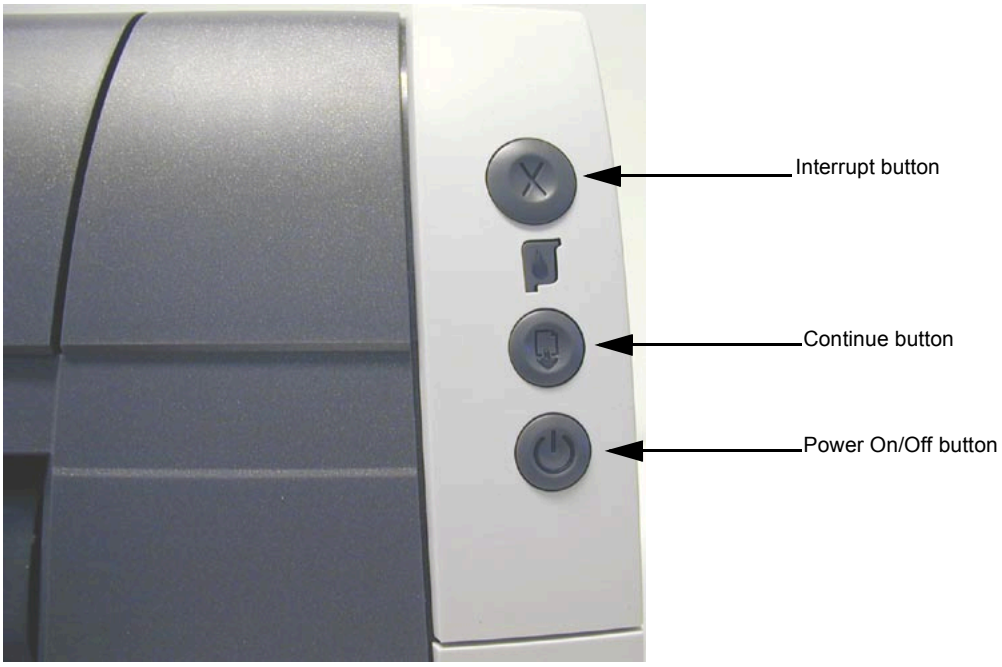



**Figure 2-2 Buttons and LEDs on the front of the printer**

**Figure 2-3 Connectors on the rear of the printer**

# Section 2-4
# Hardware Installation

## 2-4-1 Printer directly connected to Vivid 7

1.) Connect the HP DeskJet Printer to the AC mains outlet.

2.) Connect the twisted Ethernet Cable (070D2951) from the Deskjet Printer directly to the Ethernet Connector on the Vivid 7.

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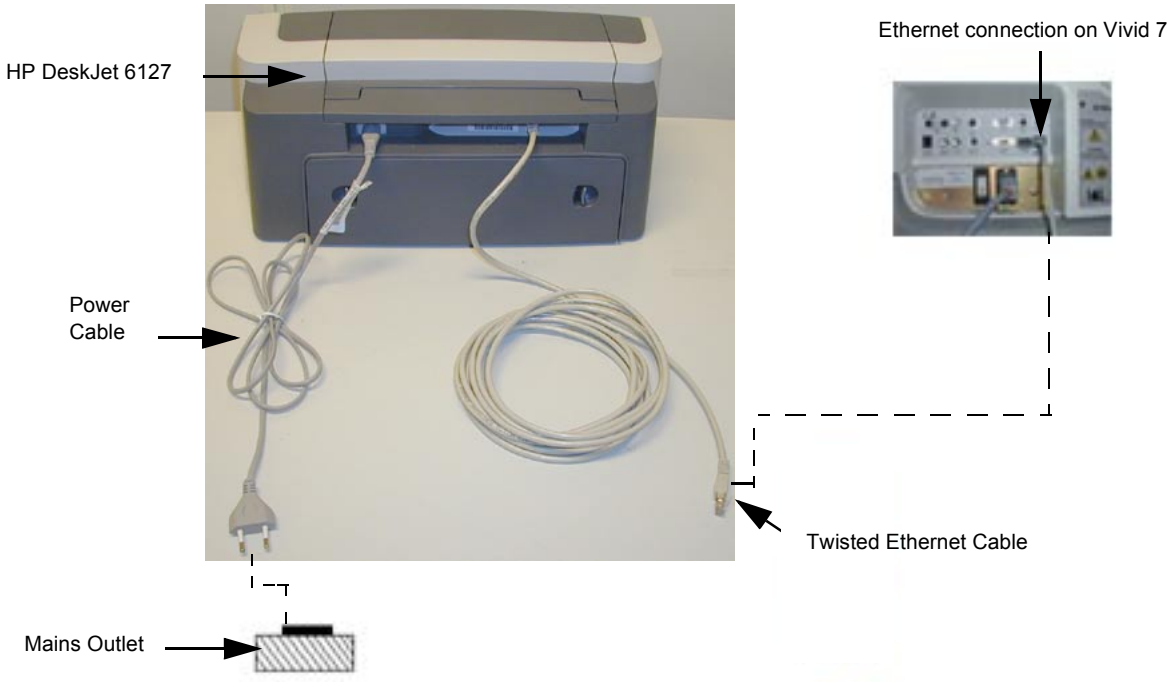



**Figure 2-4 DeskJet Printer connections overview**

# Section 2-4 Hardware Installation (cont'd)

## 2-4-2 Printer connected via network

1.) Connect the HP DeskJet Printer to the AC mains outlet.
2.) Connect the Ethernet Cable (070D2950) to the Deskjet Printer and the Ethernet Switch.
3.) Connect the Ethernet Cable (070D2950) from the Ethernet Switch to the Vivid 7.

.

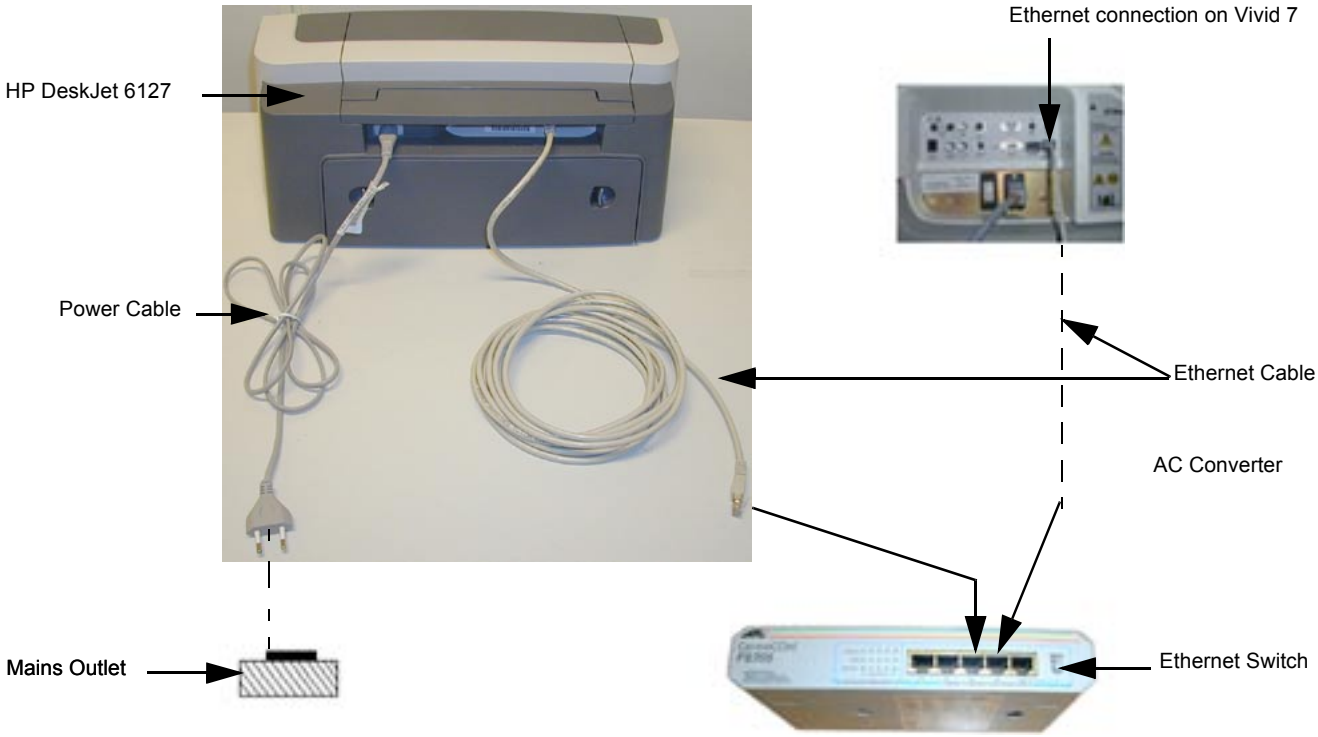



**Figure 2-5 DeskJet Printer Network connections overview**

# Section 2-5
# Check SW versions and BEP type

1.) Record the current software versions, see 2-2-8-4 "Record Current System Software Version" on page 2-11.
   - Application Software Version (v.__.__.___)
   - System Software (v.1.__.___)
2.) Record the Back-End Processor (BEP) type:
   - For some software versions the BEP type is listed on the same page as the software versions, see 2-2-8-4 "Record Current System Software Version" on page 2-11.
   - If not listed there, see 2-2-8-6 "Verify BIOS Version -- to Determine BEP Version" on page 2-15.
     Back-End Processor: ___BEP1 or ___BEP2.

# Section 2-6
# Check if HP6127 Print Driver is installed

1.) Select **CONFIG** (F2) on the Qwerty Keyboard on the operator panel.

*NOTE: If not Logged ON already, then the Operator Log On window is displayed.Select adm from the Operator pull-down menu and select Log On.*

2.) Select CONNECTIVITY.
3.) Select ADDITIONAL OUTPUTS.
4.) Select *Standard Printer Settings*.
5.) **SELECT** to display Print Setup.
6.) Examine the List in the scroll window.

*NOTE:* **With SW v2.3.0, steps 3 and 4 have the following text "**3.) Select SERVICES.**,and** 4.) Select *Standard Print*.**"**

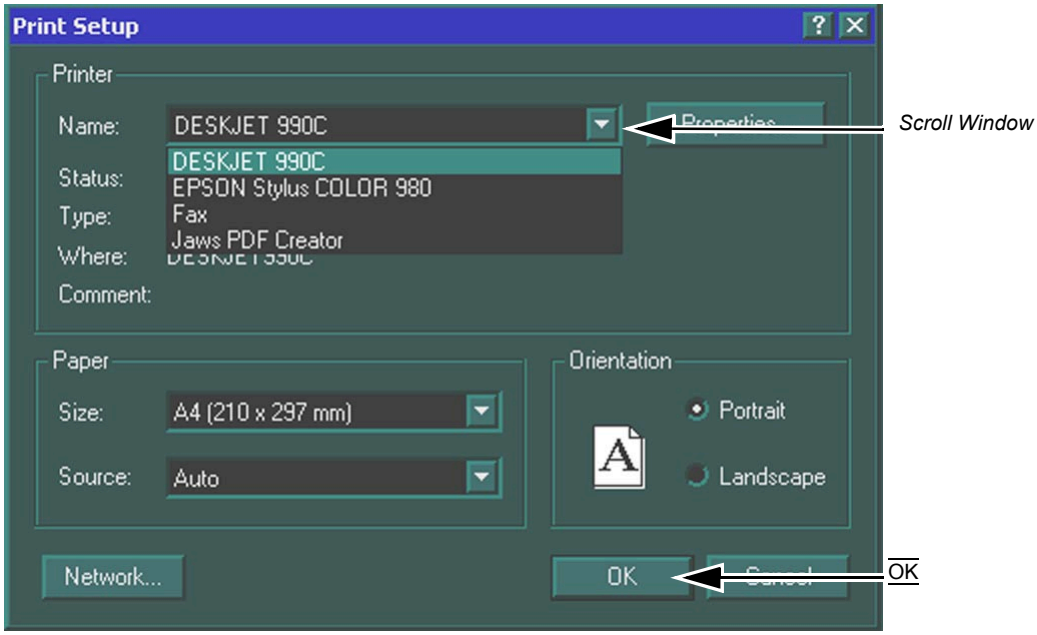



**Figure 2-6 Print Setup**

7.) If the HP Deskjet 6127 is listed in the Scroll Window, click OK twice and continue from Section 2-13 on page 2- 31.
8.) If it is not listed, continue from Section 2-7 on page 2- 7

Select OK close the Print Setup Window.

# Section 2-7
# Pre-installation Backup

## 2-7-1 Backup procedure

Use a blank dedicated MO disk when doing a backup. This MO disk should only be used for backup/ restore purpose (Do not use this MO disk when doing Export or Save as.). The backupprocedure will OVERWRITE the existing data on the MO disk.

⚠ **CAUTION** *When formatting the MO disk, give it a logical name and make sure to physically label the disk with the mention "Backup". A labelling convention should be followed so that each MO disk gets a unique label.*

If moving images, make sure to have enough formatted MO disks before disponible.

1.) Insert a dedicated formatted (see page 435) MO disk in the MO drive.
2.) Press **CONFIG (F2)** on the alphanumeric keyboard. The *Log In window* is displayed asking for operator ID and password.
3.) Select the user with administration rights and enter the password.
4.) Select **Log on**.The *Setup dialogue window* is displayed.
5.) Select the *Admin setup category*.The *Backup sheet* is displayed (Figure 8-35).
6.) Select:
   - **Patient archive** to backup patient records and reports.
   - **System setting** to copy system settings and user presets. The system configuration backup can be used to configure several Vivid 7/Vivid 7 PRO units with identical presets, providing the units have the same software version.
   - **Move oldest images** to move images and reports from the local harddrive onto MO disks. Adjust the time span next to **Older than** to move images and reports older than that setting.
7.) Select the MO disk as destination.
8.) Press **Backup Now**.
   - The system is checking that the MO disk is inserted. If not, a dialogue window is displayed prompting the user to insert a MO disk. Press **OK** to resume backup.
   - The system is checking that the MO disk is formatted. If not, a dialogue window is displayed prompting the user to format the disk.
   - The system is checking the available space on MO disk for the patient archive. If there is not sufficient free space a dialogue window is displayed. Press **OK**, the media is ejected and insert a new formatted MO disk. A progress dialogue is displayed showing the current operation being performed. If the amount of data exceeds the capacity of the MO disk the user is prompted to insert a new (formatted) MO disk. At the end of the process a status for each item is displayed in the *Result column*. If errors occur during backup, a list of the patient records/ examinations that could not be backed up is displayed.

## 2-7-1 Backup procedure (cont'd)

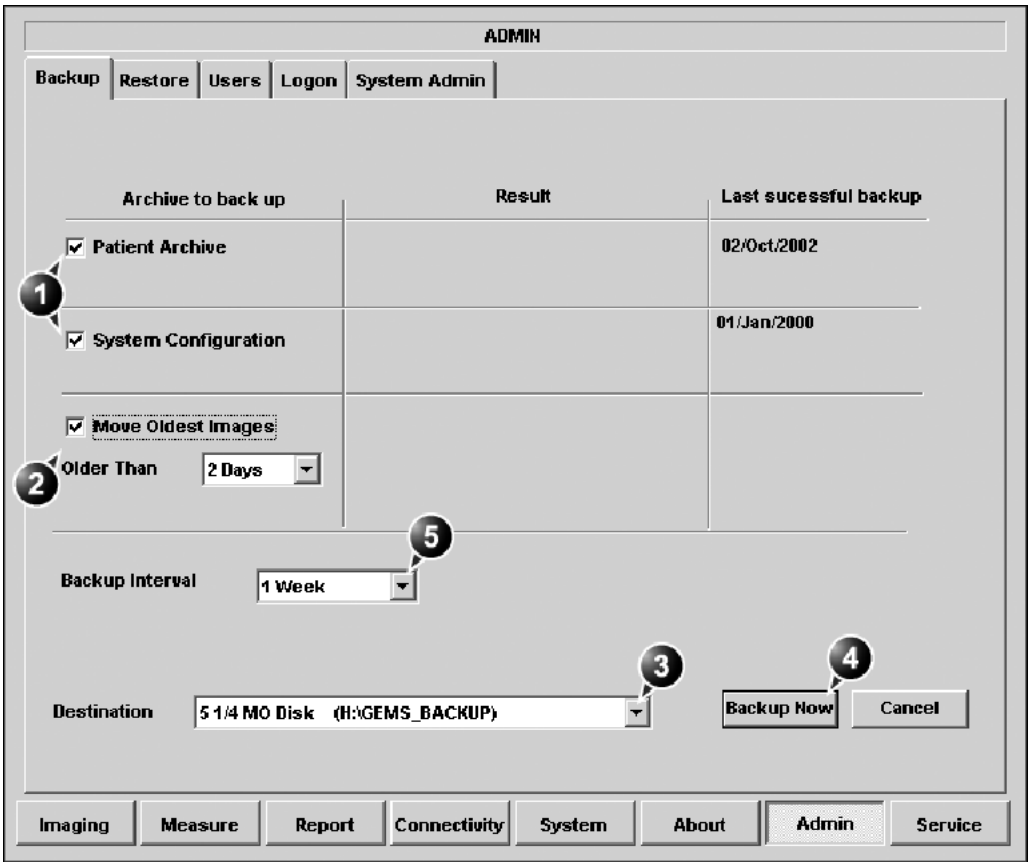



**Figure 2-7 The Backup sheet**

1.) Select the item to backup
2.) Select and adjust the Move images function
3.) Select the MO disk as backup destination
4.) Start backup
5.) Adjust the backup reminder

# Section 2-8
# Record Software Option Keys, Video, VCR and TCP/IP Settings

## 2-8-1 Record Software Option Keys

*NOTE: Service Key is not required and should NOT be installed prior to Upgrade*.

1.) Select **CONFIG** (F2) on the Qwerty Keyboard on the operator panel.

*NOTE: If not already Logged ON the Operator Log On window is displayed. Select adm from the Operator pull-down menu and select Log On.*

2.) From ADMIN tab, select the SYSTEM ADMIN.

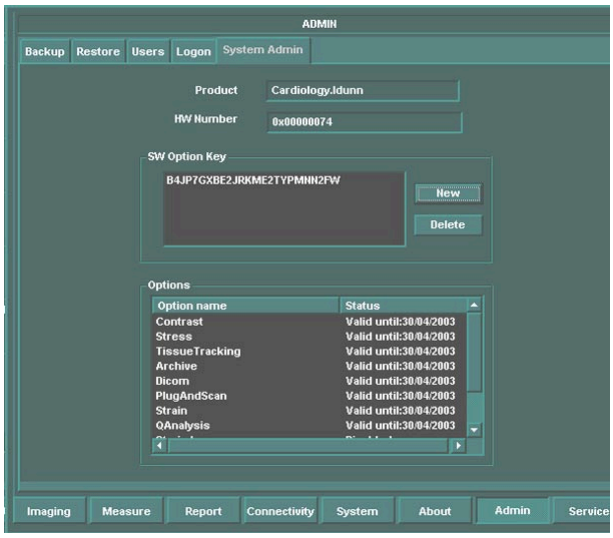



**Figure 2-8 System Admin**

3.) Record Software Option Keys from Software Options Key window.

⚠ **WARNING** ***Make sure that the SW Option Keys have been recorded correctly. If the key is incorrect, you will not be able to log on after the SW installation has been completed. The Option Key is case sensitive. Hyphenates must also be recorded. There may be more than one Option Key.***

**Table 2-2 Software Option Keys**

| Software Option Keys |
|---|
| |
| |
| |
| |
| |

## 2-8-2 Record VCR and Video settings

1.) From the QWERTY keyboard on the Operator Panel, select **CONFIG** (F2 key), from the operator log in window, select *adm* from the pull down menu, then select LOG ON. (No password Needed).

2.) From the lower part of the window, select the SERVICE tab.

.

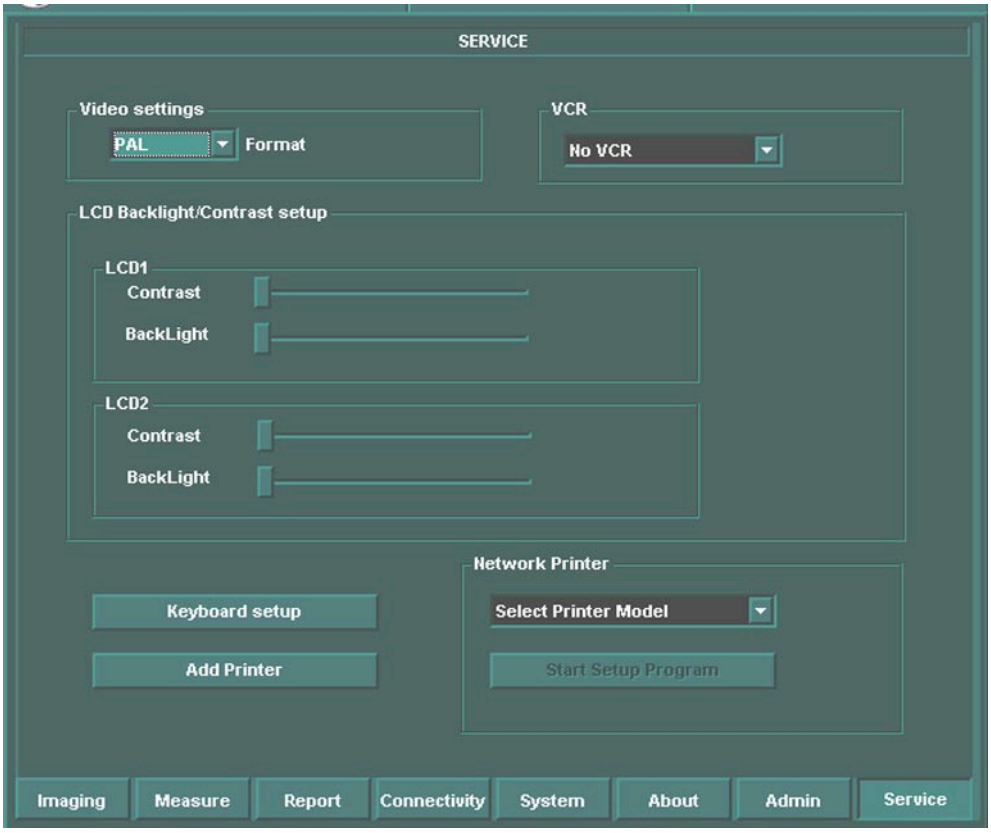



**Figure 2-9 Video Settings**

3.) From Video Settings pull down menu, record displayed *Format*.

4.) From the VCR pull down menu, record displayed *VCR type*.

**Table 2-3 Video Settings**

| Recording table for Video Settings |
|---|
| |
| |
| |
| |
| |

## 2-8-3 Record TCP/IP Settings

1.) Select CONNECTIVITY.

2.) Choose TCPIP tab.

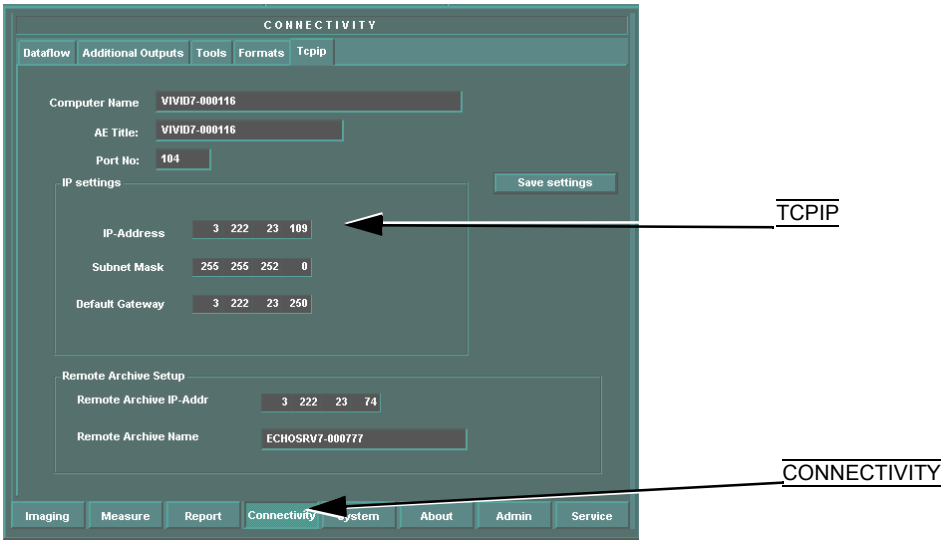



**Figure 2-10 TCP/IP Example Settings**

3.) Record all settings (you may use the table below).

.

**Table 2-4 TCPIP Settings Table**

| Function | Setting |
|---|---|
| Computer Name | |
| IP-Address | |
| Subnet Mask | |
| Default Gateway | |
| Remote Archive IP-Address | |
| Remote Archive Name | |
| AE Title | |
| Port Number | |

### 2-2-8-4 Record Current System Software Version

1.) From the alphanumeric keyboard on the Operator Panel, press **CONFIG** (F2 key)

2.) From the operator log in window, select ADM from the pull down menu.

3.) Select LOG ON. (No password needed).

4.) Select ABOUT tab.

Verify that the SW versions are the same as on the CD you installed from.

## 2-8-5 Record IP and Port Settings for Standard Printer on Vivid 7

1.) Select CONNECTIVITY.
2.) Select ADDITIONAL OUTPUTS.
3.) Select Standard Printer Settings.

*NOTE:* **With SW v2.3.0, steps 2and 3 have the following text "**2.) Select SERVICES.**,and** 3.) Select *Standard Print*.**"**

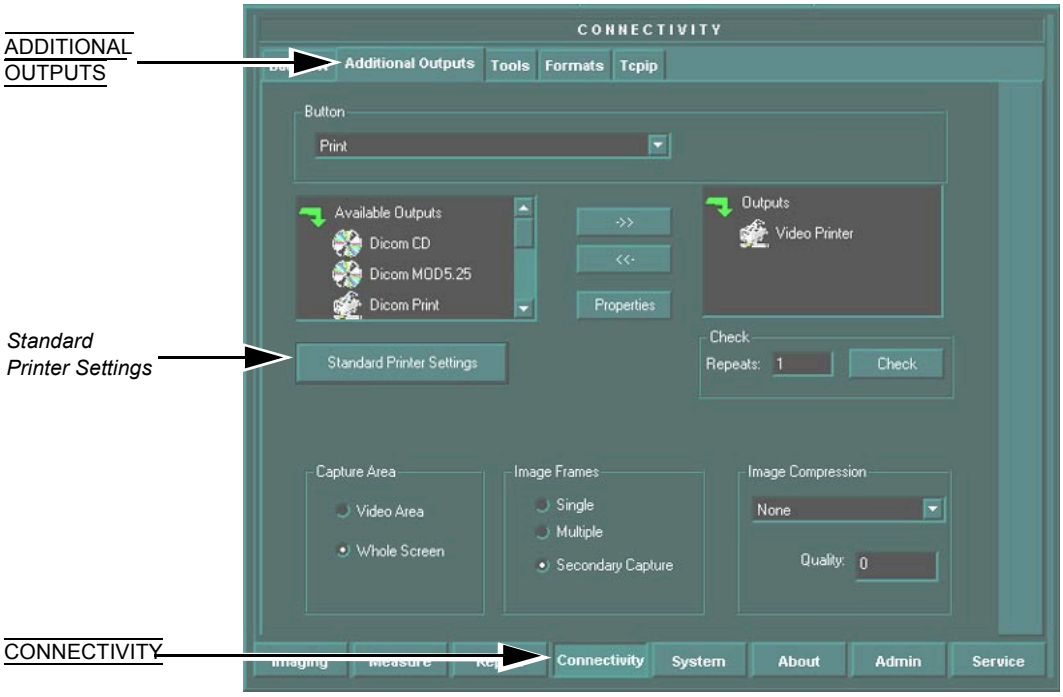



**Figure 2-1 Additional Outputs screen**

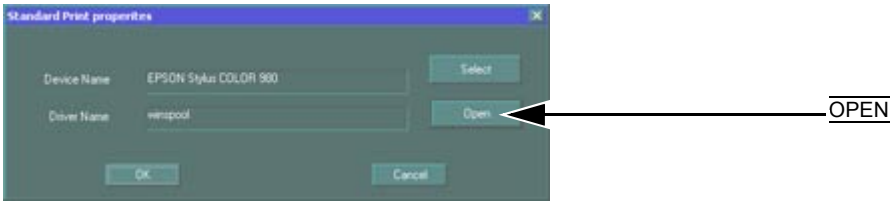



**Figure 2-2 Standard Printer Settings Dialog**

4.) Select OPEN
5.) Select Printer
6.) Select *Properties*.

## 2-8-5 Record IP and Port Settings for Standard Printer on Vivid 7 (cont'd)

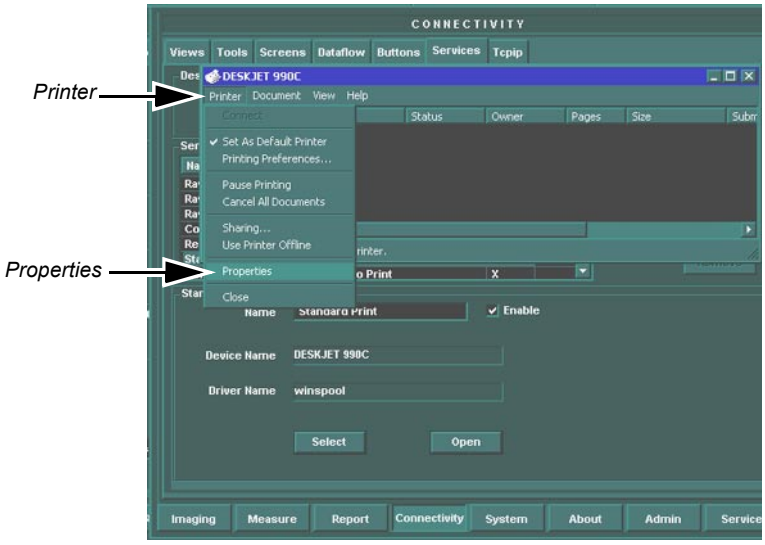



**Figure 2-3 Properties**

## 2-8-5 Record IP and Port Settings for Standard Printer on Vivid 7 (cont'd)

7.) Select the Ports Tab
8.) Choose pre-selected printer Port.
9.) Select CONFIGURE PORT.

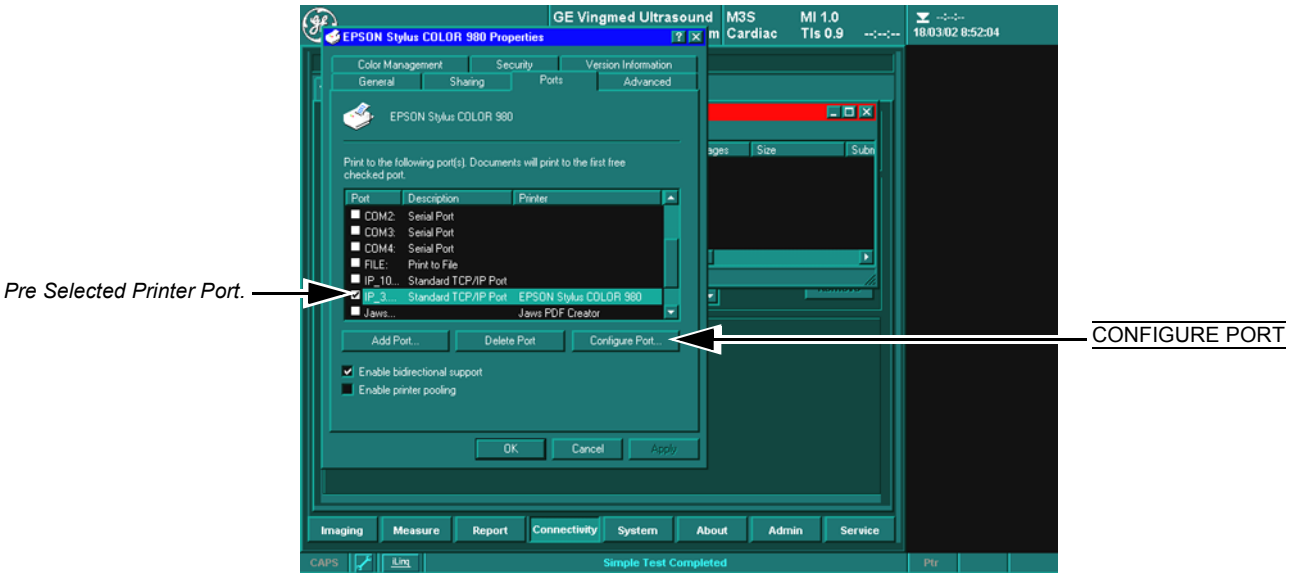



**Figure 2-4 Configure Port**

10.)Select and Record *Printer Name or IP Address*.
11.)Select *Raw*.
12.)Select and Record *Port Number*.
13.)Select CANCEL twice
14.)Close Printer Setup window.

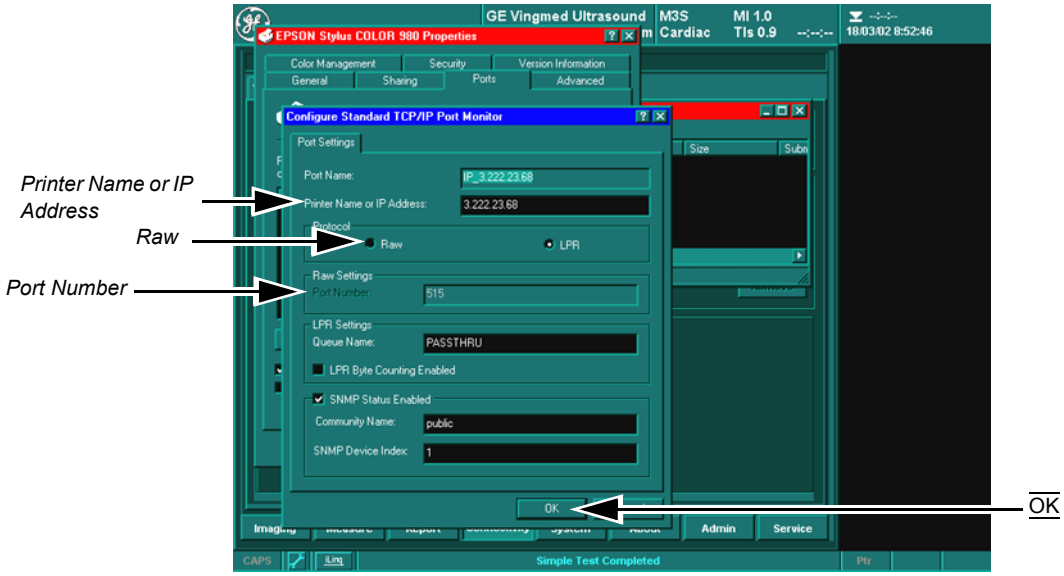



**Figure 2-5 Configure Port**

### 2-2-8-6 Verify BIOS Version -- to Determine BEP Version

1.) Power down the System.

2.) Wait until the LCD's on the Operator Panel are switched off and the ON/Standby Button has turned yellow.

3.) Power ON the System.

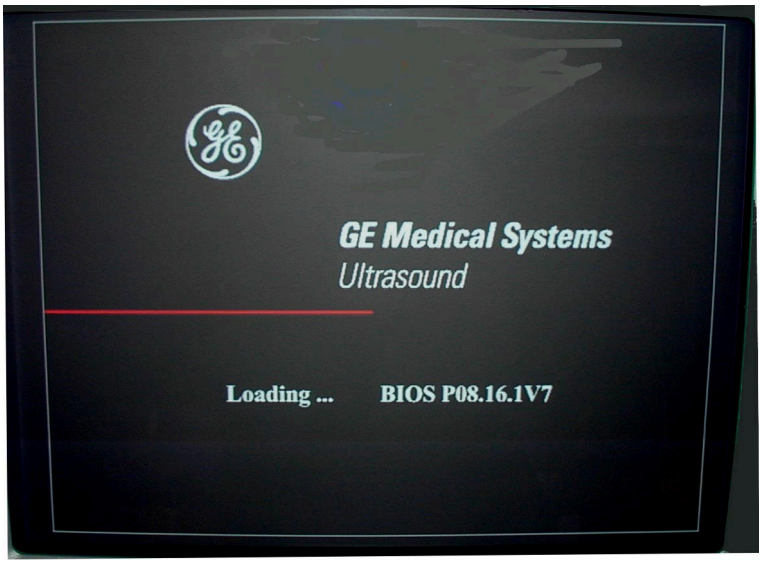



**Figure 2-1 BIOS version visible at power up**

4.) When the system is booting, record BIOS version, that is displayed on the screen, in table 1-8.

**Table 2-1 BIOS recording**

| BIOS Version |
|---|
| |

5.) Verify BIOS version in Table 2-1 to the list below.

- If BIOS version is 1.7, 1.7.1, 1.7.2 or 1.7.3 then the unit has a BEP-1.
- If BIOS version is P07.14.1V7 or P08.16.1V7 then the unit has a BEP-2.
- If BIOS version is D.50.1.V7 then the unit has a BEP-2.

6.) Check the correct BEP type or record the correct type (BEP-1 or BEP-2).

## 2-2-9 Software Loading

### 2-2-9-1 Overview

This software loading procedure covers:

- Installation of BT'03 software (SW.v.3.n.n) on Vivid 7 units with BT'01 software (SW v.1.n.n).
- Installation of BT'03 Software (SW.v.3.n.n) on HP Deskjet 6127 units with BT'02 software (SW v.2.n.n).

A total of three CDs are included in each kit,

- one CD with BEP-1 System Software
- one CD with BEP-2 System Software
- one CD with the Application Software

*NOTE: ONLY two of the CD's are to be used, depending on BEP-type.*

# Section 2-10
# Software Installation on Vivid 7

*NOTE: Before you select the correct SW CD check if the Scanner has BEP1 or BEP2 whch is also vital in your chouice of CD*

1.) Insert the System Software CD into the Vivid 7 CD drive. See Table 1-2, “Furnished Materials (Part Number EP100516),” on page 1-3) to obtain the correct one.

2.) Shut down Vivid 7.

3.) Boot Vivid 7. It boots from the Inserted System Software CD and the installation program starts.

**Figure 2-1 Startup from Ghost CD**

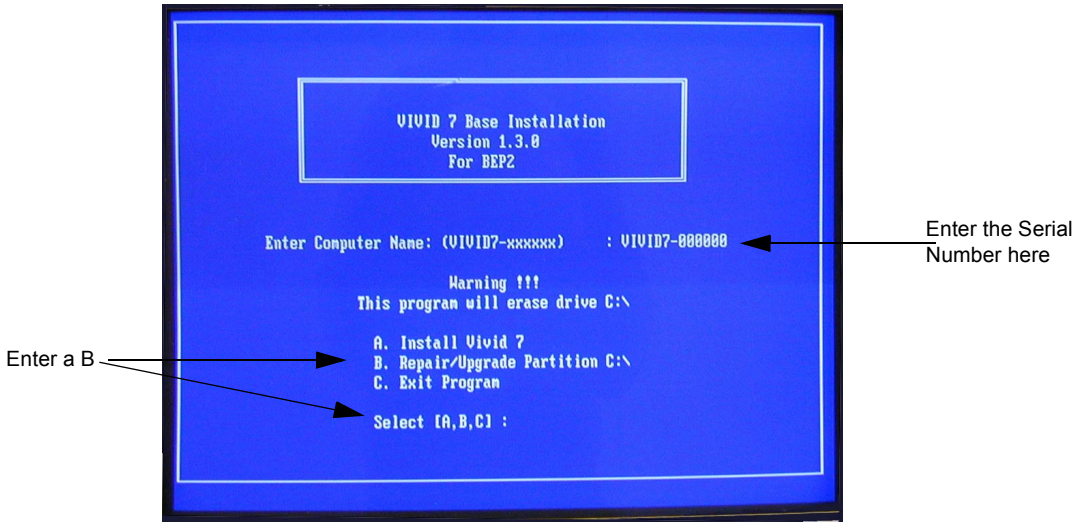



**Figure 2-2 Installation Screen**

4.) When requested, enter the Scanners Serial number: **Vivid7- 001890 (example).** Always Enter two zero’s before you enter the serial number. This means that when you have a Vivid 7 serial number which is 1890 you enter 001890. When the Serial number is 1123 you enter 001123.

5.) Choose software installation B only. *System Configuration and User Configurations (customer presets) will be lost unless option B is selected.*

## Section 2-10 Software Installation on Vivid 7 (cont'd)

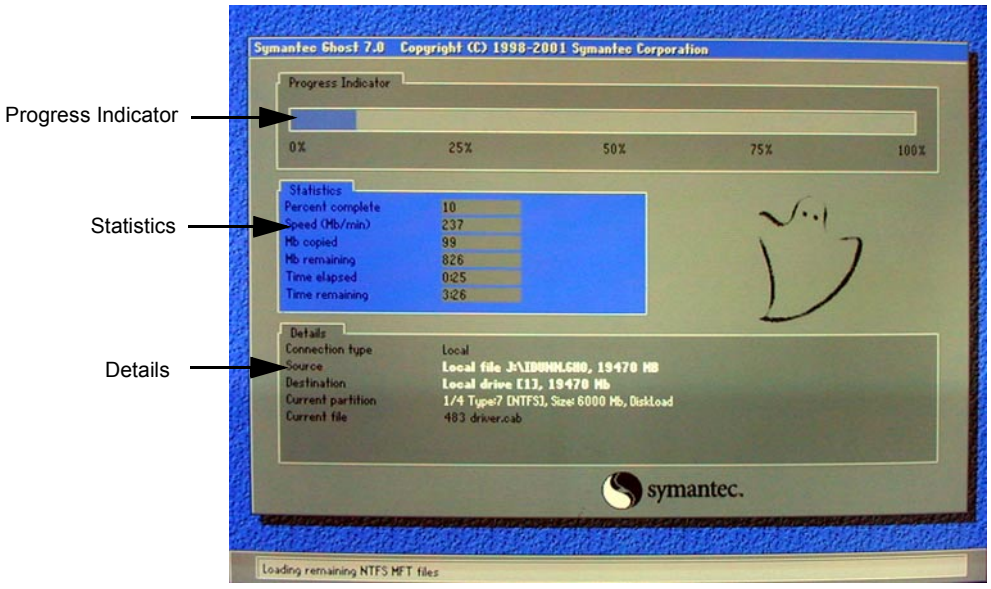



**Figure 2-3 Ghost Installation Progress**

6.) Wait for Software installation to be performed. (Typically installation time: 10 minutes). A status bar on the screen indicates the progress.

**Figure 2-4 Software Installation completes**

7.) After the installation of the first CD, you are prompted to remove theCD. Press the **EJECT** button on the CD drive and remove the CD.

8.) Insert the Application Software CD see Table 1-2, "Furnished Materials (Part Number EP100516)," on page 1-3. For field upgrades it is 2.3.0 software. For new installations it is 3.0.0 software.

9.) Restart Vivid 7.

## Section 2-10 Software Installation on Vivid 7 (cont'd)

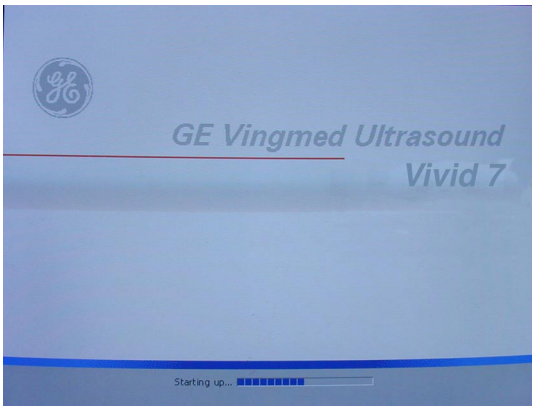



**Figure 2-5 Start Picture**

10.) When system is rebooted, a dialog box with INSTALL SW is shown. Select this and confirm OK.

11.) A couple of Start Loader Warnings appear. Consider these and select OK

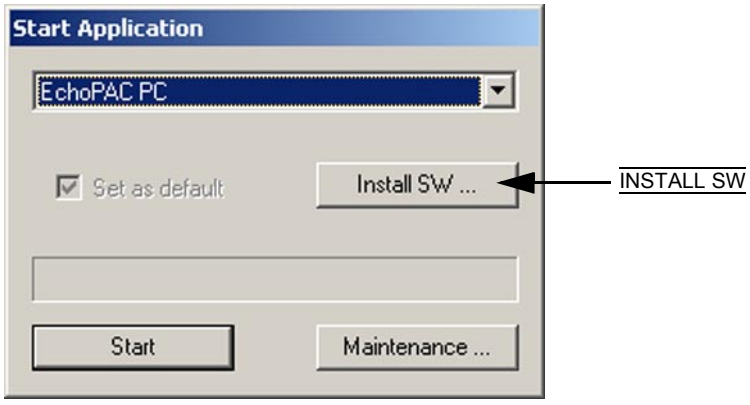



**Figure 2-6 Start Application**

12.) The system will now be loaded with application software. Remove CD after completion and reboot the scanner.

13.) The unit will boot up from the installed software. The first startup from new software may be slightly slower than a normal startup.

# Section 2-11
# Restore Recorded Software Keys, Video, VCR, and TCP/IP settings

## 2-11-1 Restore Recorded Software Option Keys

1.) Select **CONFIG** (F2) on the Qwerty Keyboard on the operator panel.

*NOTE: If not already Logged ON the Operator Log On window is displayed. Select adm from the Operator pull-down menu and select Log On.*

2.) From ADMIN tab, select the SYSTEM ADMIN.

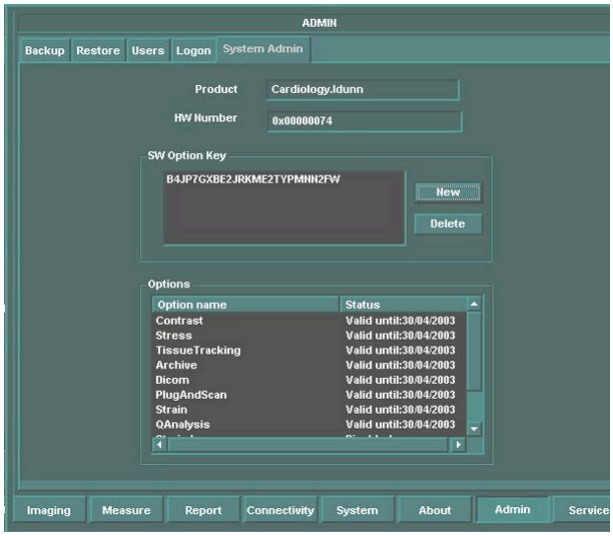



**Figure 2-7 System Admin**

3.) Restore recorded Software Option Keys in the Software Key Options window.

## 2-11-2 Restore Recorded Video and VCR Settings

1.) From the QWERTY keyboard on the Operator Panel, select **CONFIG** (F2 key), from the operator log in window, select *adm* from the pull down menu, then select LOG ON**.** (No password Needed).

2.) From the lower part of the window, select the SERVICE tab.

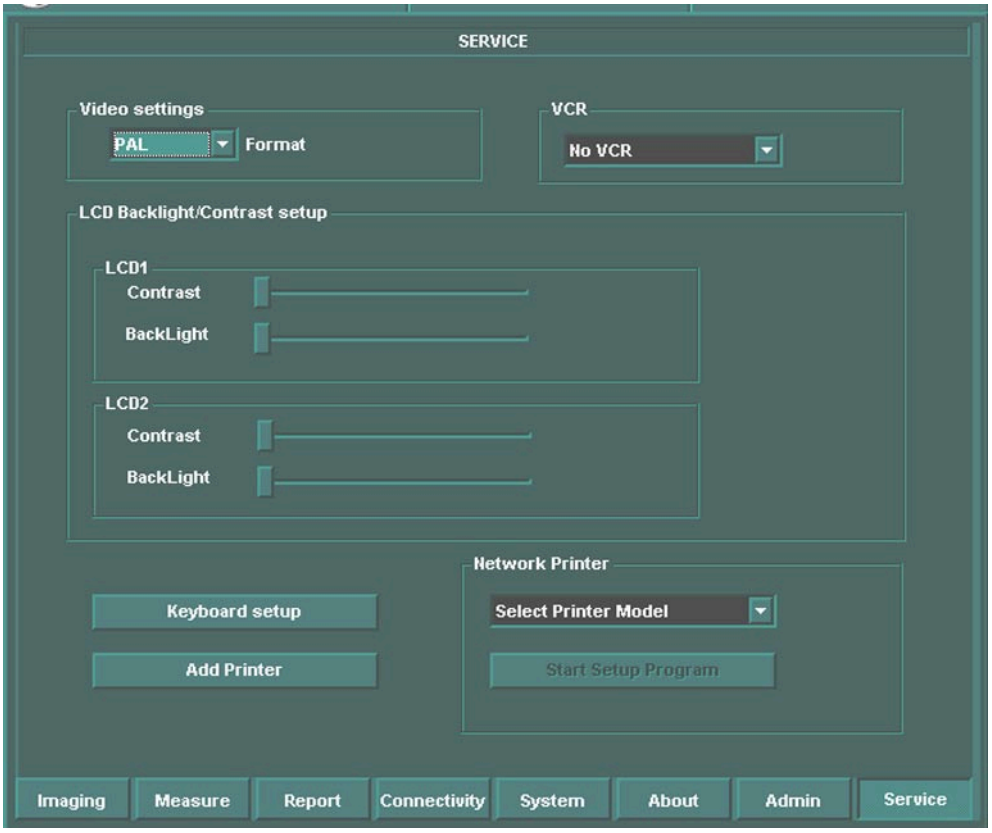



**Figure 2-8 Video Settings**

3.) From Video Settings pull down menu, restore recorded *Format*.

4.) From the VCR pull down menu, restore recorded *VCR type*.

## 2-11-3 Restore TCP/IP Settings

1.) Select **F2 (CONFIG)** button on QWERTY Keyboard.
2.) Select CONNECTIVITY->TCP/IP tab.
3.) Insert settings you wrote down in 2-8-3 on page 2-11 .
4.) Select SAVE SETTINGS.

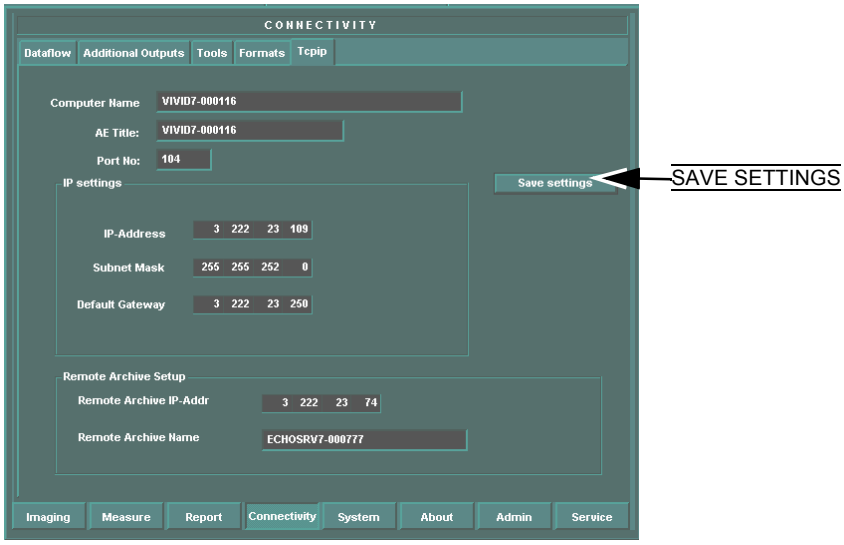



**Figure 2-9 TCPIP TAB Screen.**

5.) You are prompted that the system has to reboot, select OK.
6.) Reboot the scanner.

# Section 2-12
# Configure Vivid 7 for already working printer

⚠ **NOTICE** Use this section when configuring the System for the use of a printer which is already configured on another System or network. If the Printer new and unused, go to Section 2-13 on page 2- 31.If replacing a defect printer then the installation Wizard must be usedas described inSection 2-13 on page 2- 31.

## 2-12-1 Set up Printer as Default Printer for Vivid 7

1.) Select CONNECTIVITY.
2.) Select ADDITIONAL OUTPUTS.
3.) Select *Standard Printer Settings*.
4.) Choose SELECT.

*NOTE:* **With SW v2.3.0, steps 2 and 3 have the following text "**2.) Select SERVICES.,**and** 3.) Select *Standard Print*.**"**

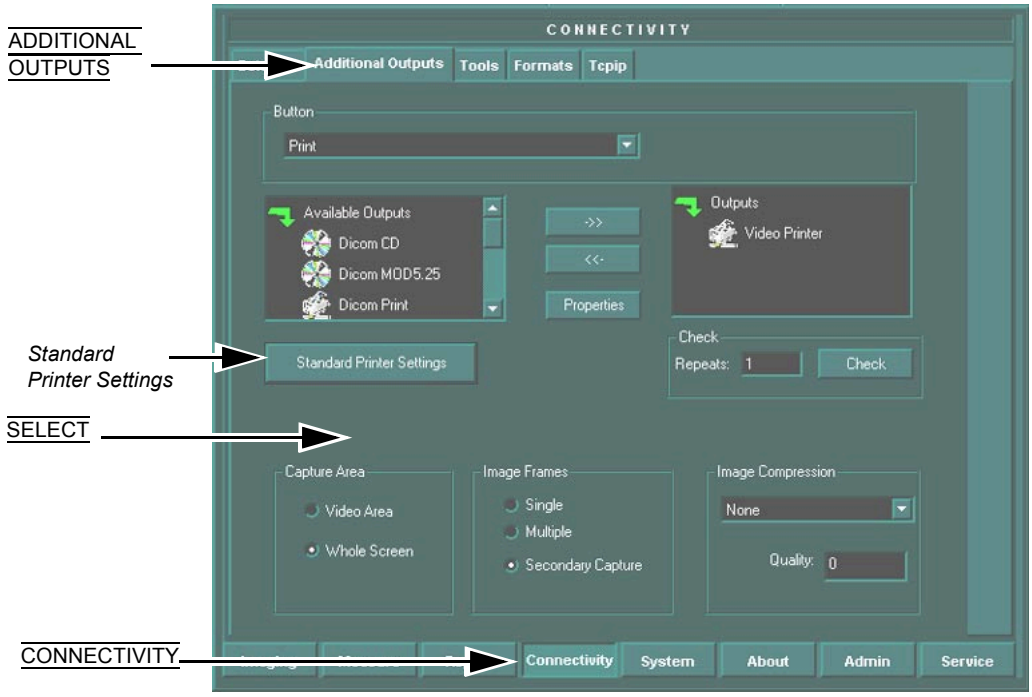



**Figure 2-10 Choosing Standard Print**

5.) Select HP Deskjet 6127series in Scroll Window and select OK.

## 2-12-1 Set up Printer as Default Printer for Vivid 7 (cont'd)

6.) Scroll to printer.

7.) Select OK.

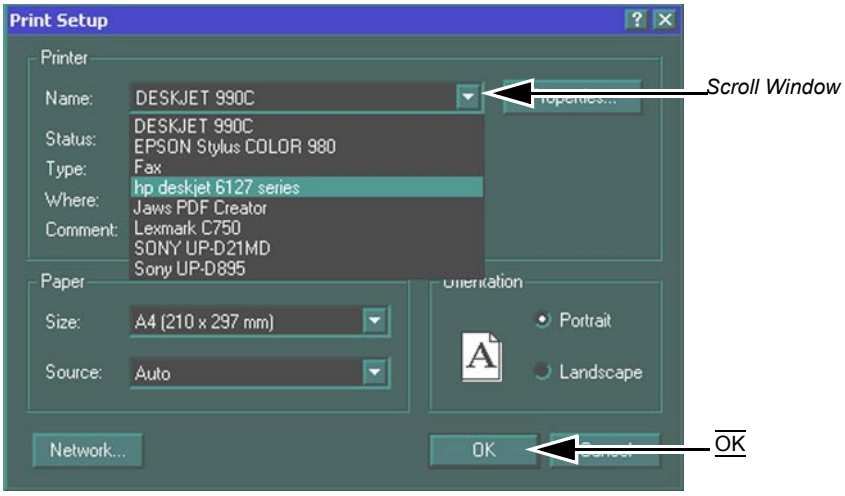



**Figure 2-11 Print Setup**

## 2-12-1 Set up Printer as Default Printer for Vivid 7 (cont'd)

8.) Select OPEN.

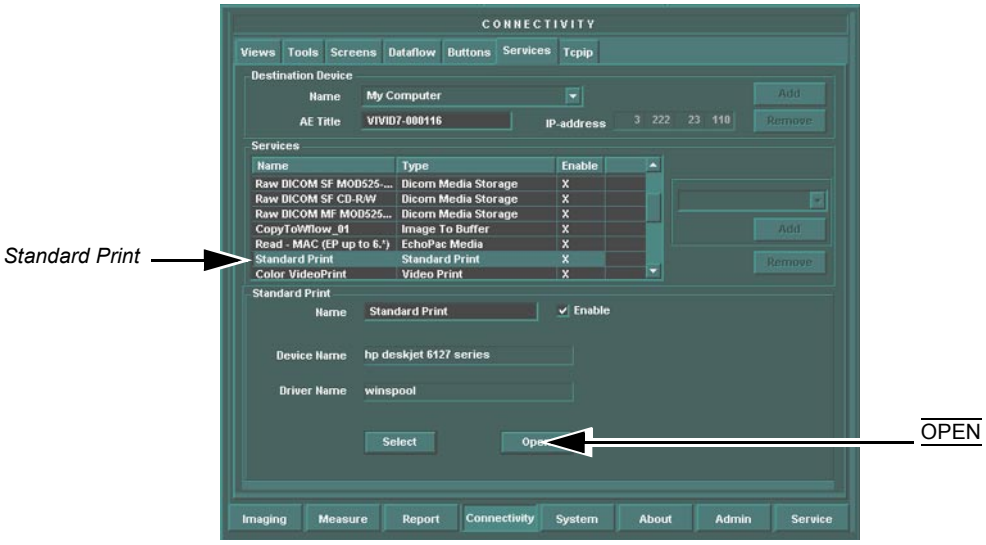



**Figure 2-12 Choosing Standard Print**

9.) Select *Set as Default Printer*.

10.) Close Window.

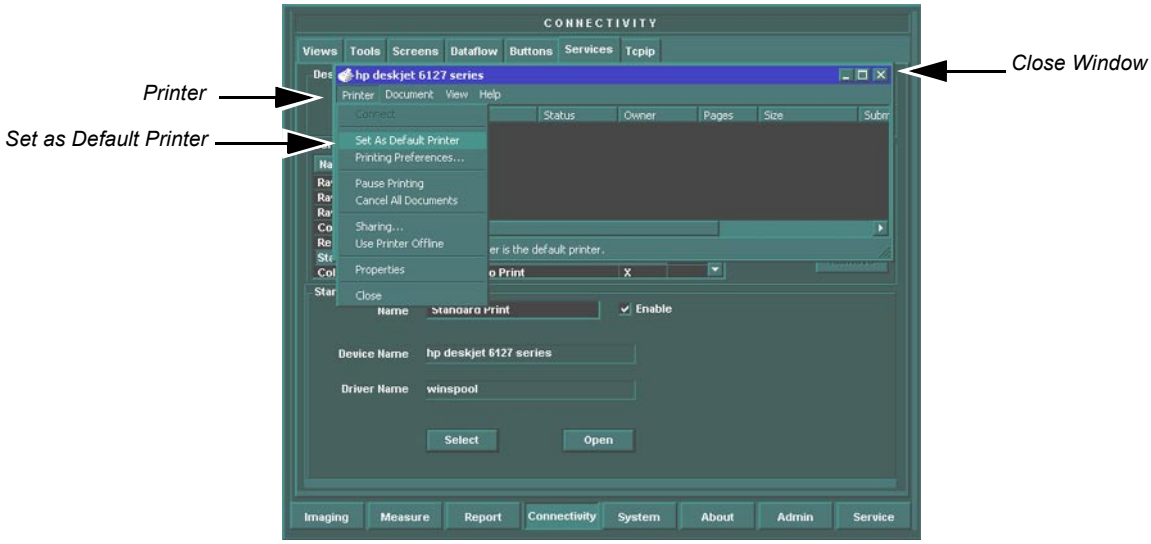



**Figure 2-13 Set as Default Printer**

## 2-12-2 Verify IP and Port Settings Standard Printer Vivid 7

1.) Select CONNECTIVITY.
2.) Select ADDITIONAL OUTPUTS.
3.) Select Standard Printer Settings.

*NOTE:* **With SW v2.3.0, steps 2 and 3 have the following text "**2.) Select SERVICES.**,and** 3.) Select *Standard Print*.**"**

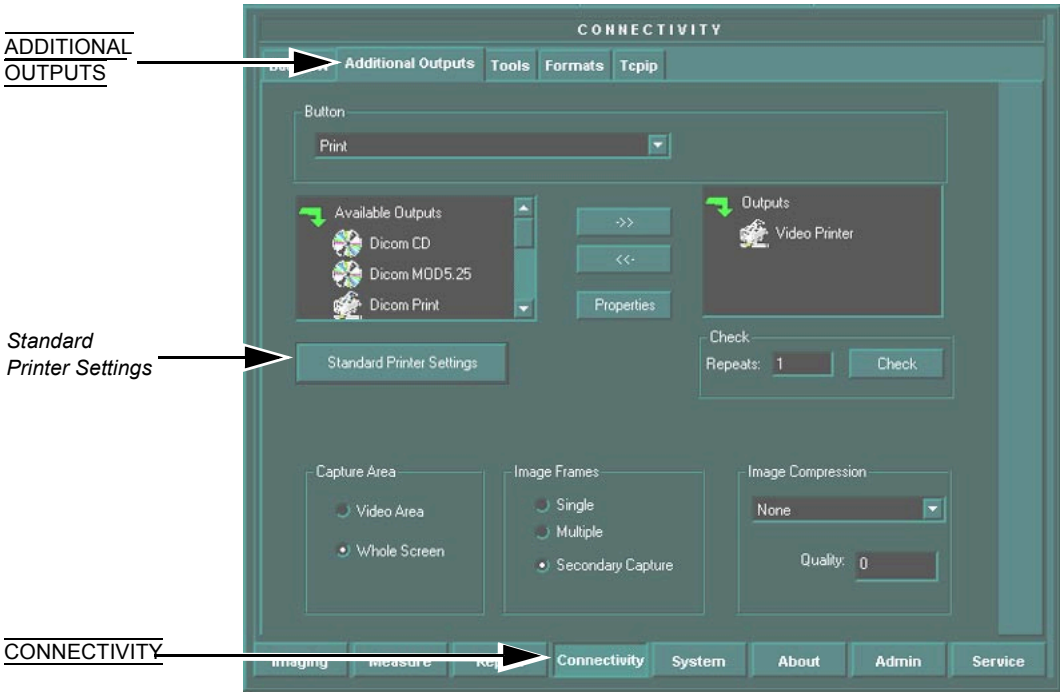



**Figure 2-14 Additional Outputs screen**

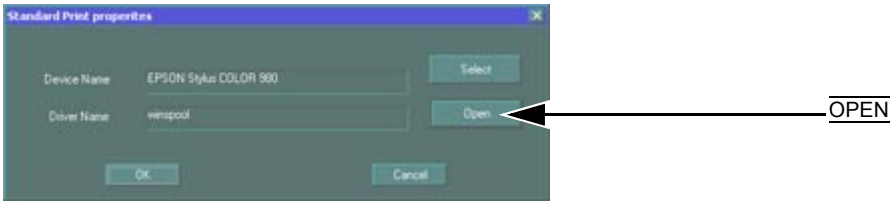



**Figure 2-15 Standard Printer Settings Dialog**

4.) Select OPEN
5.) Select Printer
6.) Select *Properties*.

## 2-12-2 Verify IP and Port Settings Standard Printer Vivid 7 (cont'd)

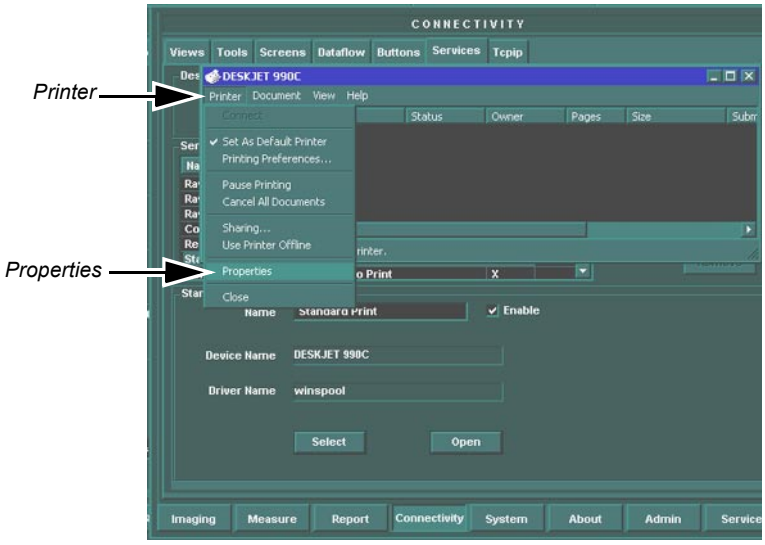



**Figure 2-16 Properties**

## 2-12-2 Verify IP and Port Settings Standard Printer Vivid 7 (cont'd)

7.) Select Ports

8.) Select *the entry that has a check mark*.

9.) Select CONFIGURE PORT.

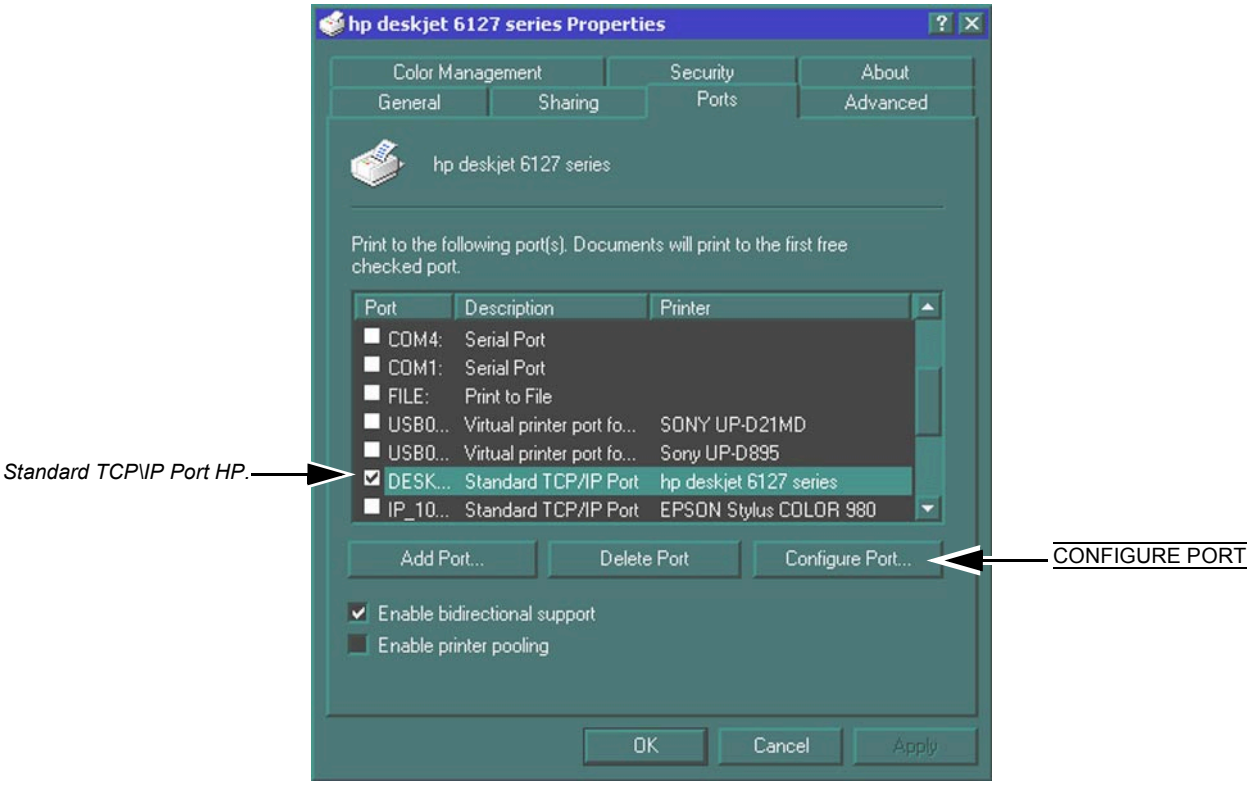



**Figure 2-17 Configure Port**

## 2-12-2 Verify IP and Port Settings Standard Printer Vivid 7 (cont'd)

10.) Obtain IP Address and Port Number from the Network Administrator or from studying the configuration of other PCs or Systems that already are configured for the printer.

11.) Enter the IP-Address in the Field for Printer Name or IP-Address.

12.) Select *Raw*.

13.) Select and Edit *Port Number*.

14.) Select OK.

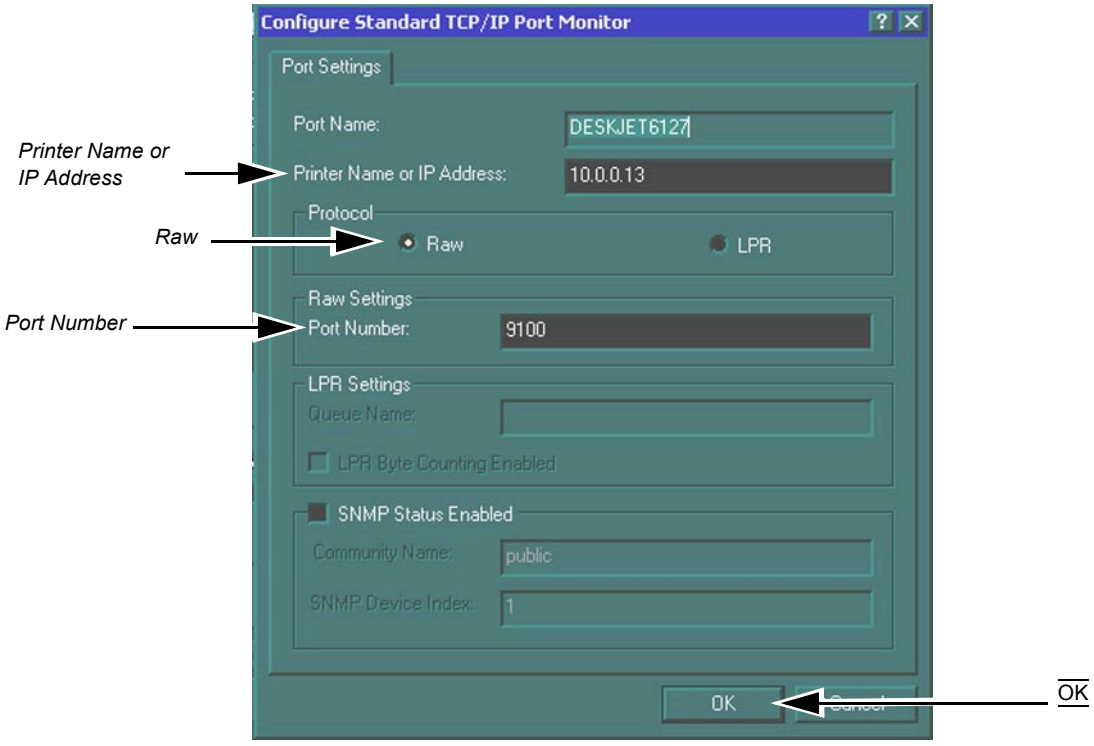



**Figure 2-18 Configure Port**

15.) Close rest of the Windows by selecting OK.

## 2-12-3 Check Printer Operation Vivid 7

Check printer operation as described in Chapter 2-13-4 - Check Printer Operation Vivid 7

# Section 2-13
# Configure Vivid 7 for a new printer

**NOTICE** This section is used when connecting a new printer to an existing network

## 2-13-1 Preparations

1.) Make sure the printer is connected to the same network as your EchoPAC PC either by using direct connect (crossed cable) or “the wall”.
2.) Make sure the printer is turned on, ink and paper has been loaded.

## 2-13-2 Run Installation Wizard

1.) Start Vivid 7.
2.) Select user *adm*, then select LOG ON.
3.) Select **F2 (CONFIG)** button on QWERTY Keyboard.
4.) Select SERVICE.
5.) Select HP Deskjet 6127 in the Network Printer *Scroll Window*.
6.) Select START SETUP PROGRAM.and select Next

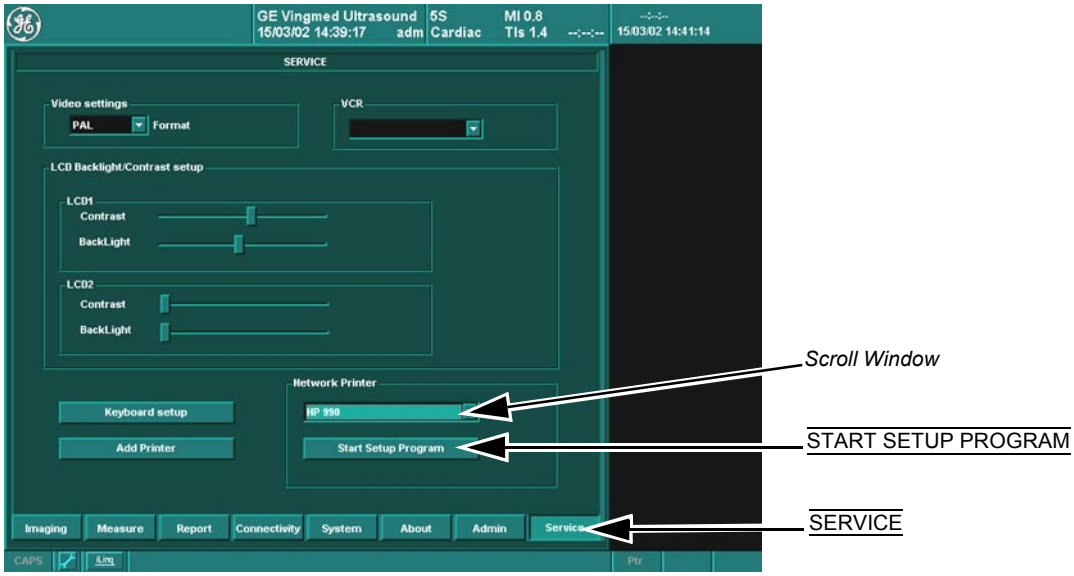



**Figure 2-19 Start Setup Program**

## 2-13-2 Run Installation Wizard (cont'd)

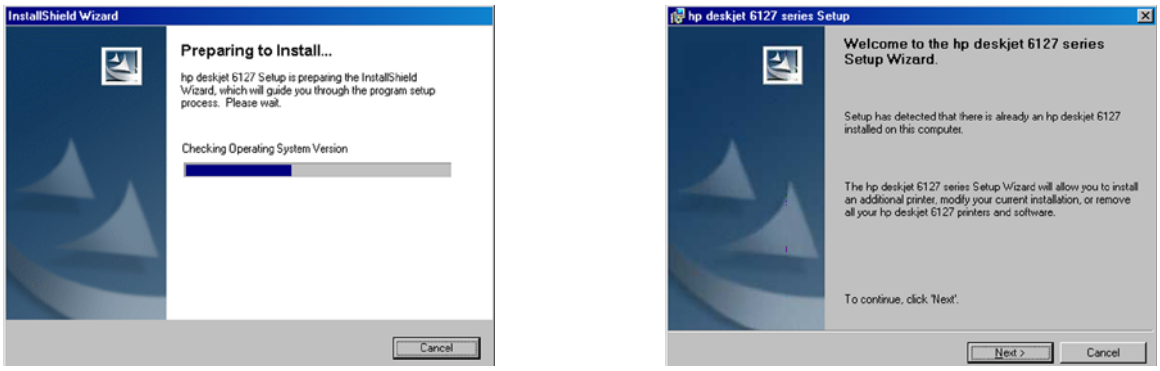



**Figure 2-20 Setup Program starts**

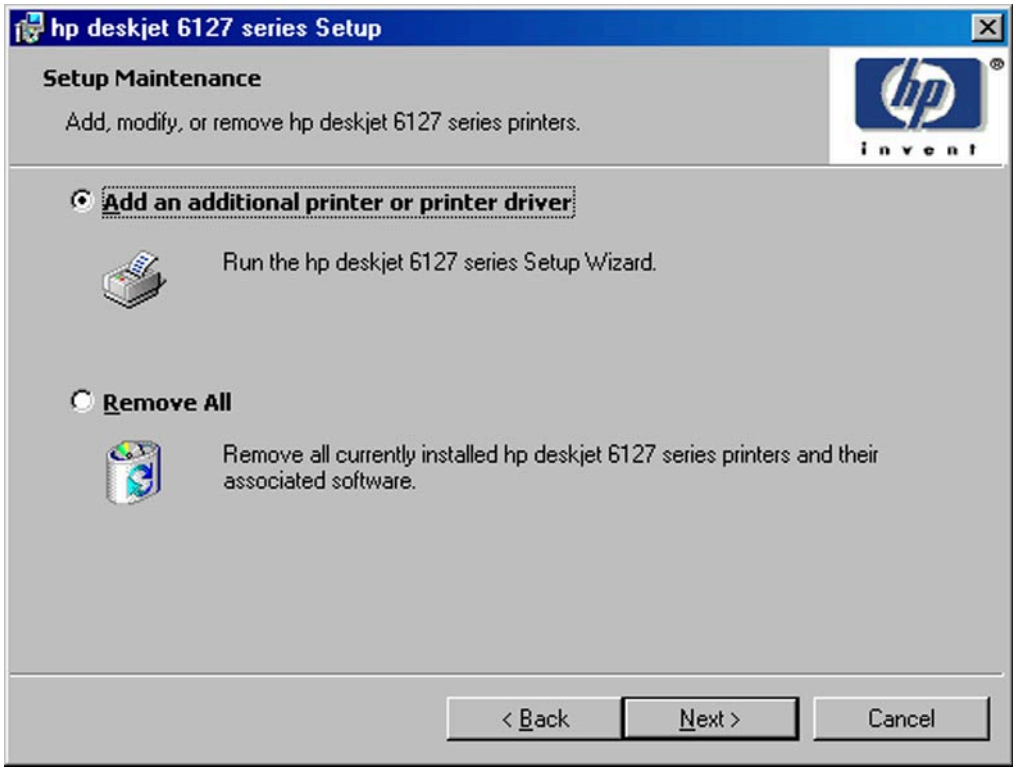



**Figure 2-21 Setup maintenance type selection**

7.) Select "Add an additional printer or printer driver", and Select Next.

## 2-13-2 Run Installation Wizard (cont'd)

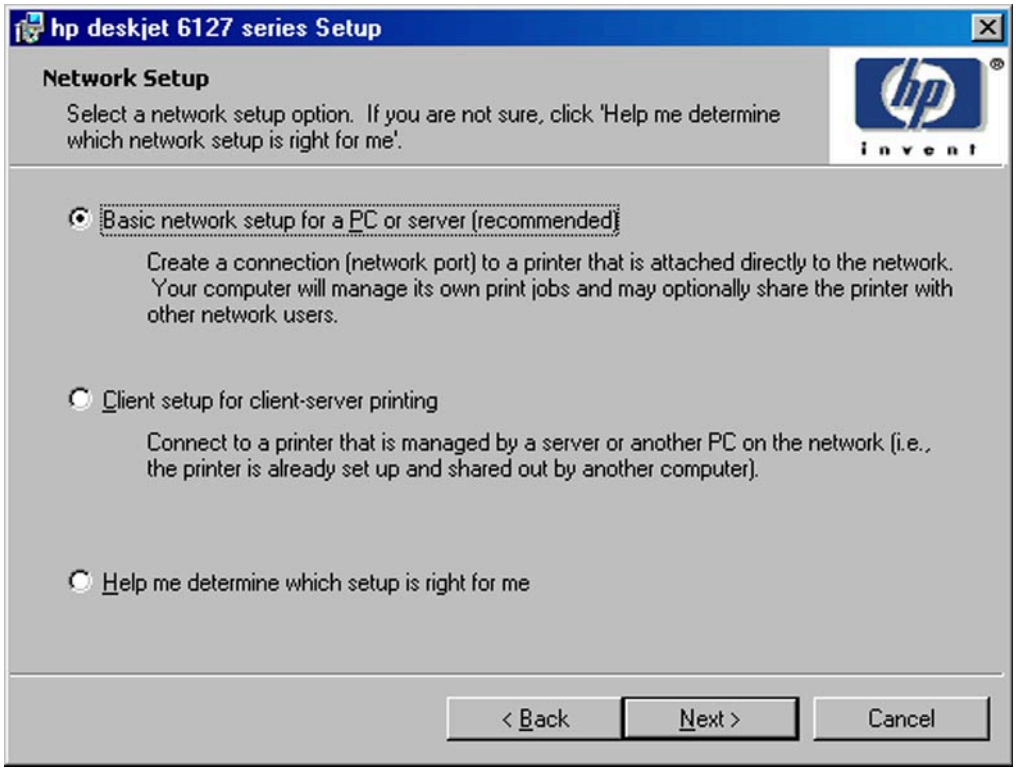



**Figure 2-22 Network setup selection**

8.) Select "Basic network setup for a PC or server (recommended), and select Next.

## 2-13-2 Run Installation Wizard (cont'd)

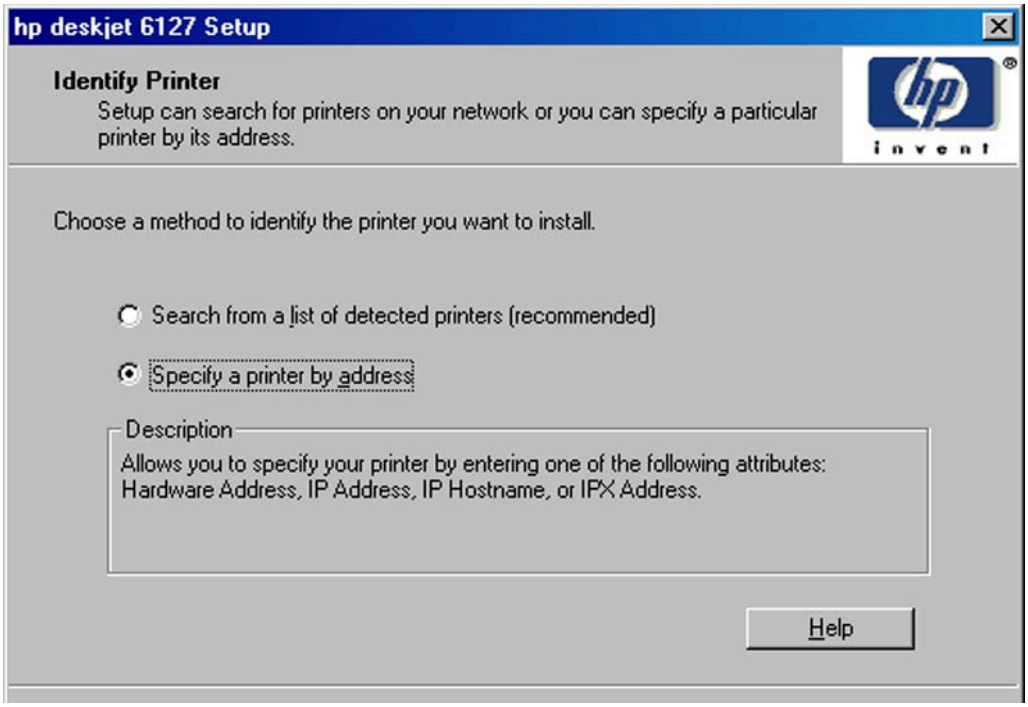



**Figure 2-23 Printer specification addressing selection**

9.) Select "Specify a printer by address", and select Next.

## 2-13-2 Run Installation Wizard (cont'd)

10.) Locate the printers hardware address at the rear cover of the printer.

**Figure 2-24 Obtaining The Hardware Address**

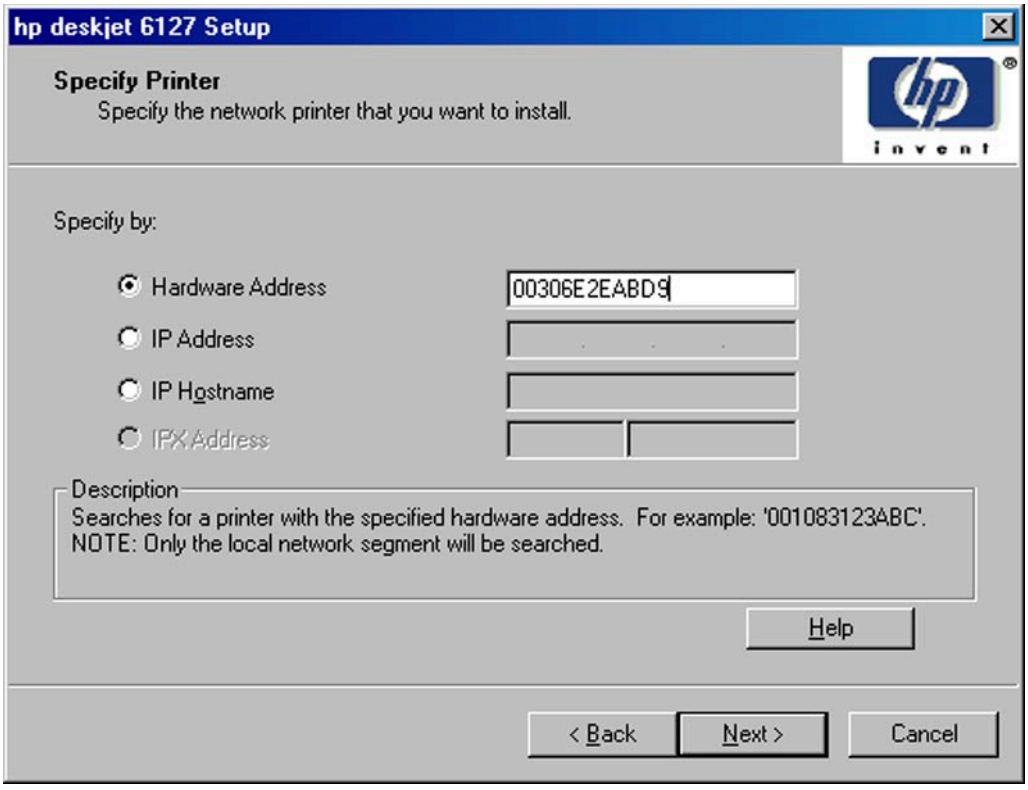



**Figure 2-25 Printer Hardware Address insertion**

11.) Enter the Hardware Address in the field "Hardware Address", and select Next.

## 2-13-2 Run Installation Wizard (cont'd)

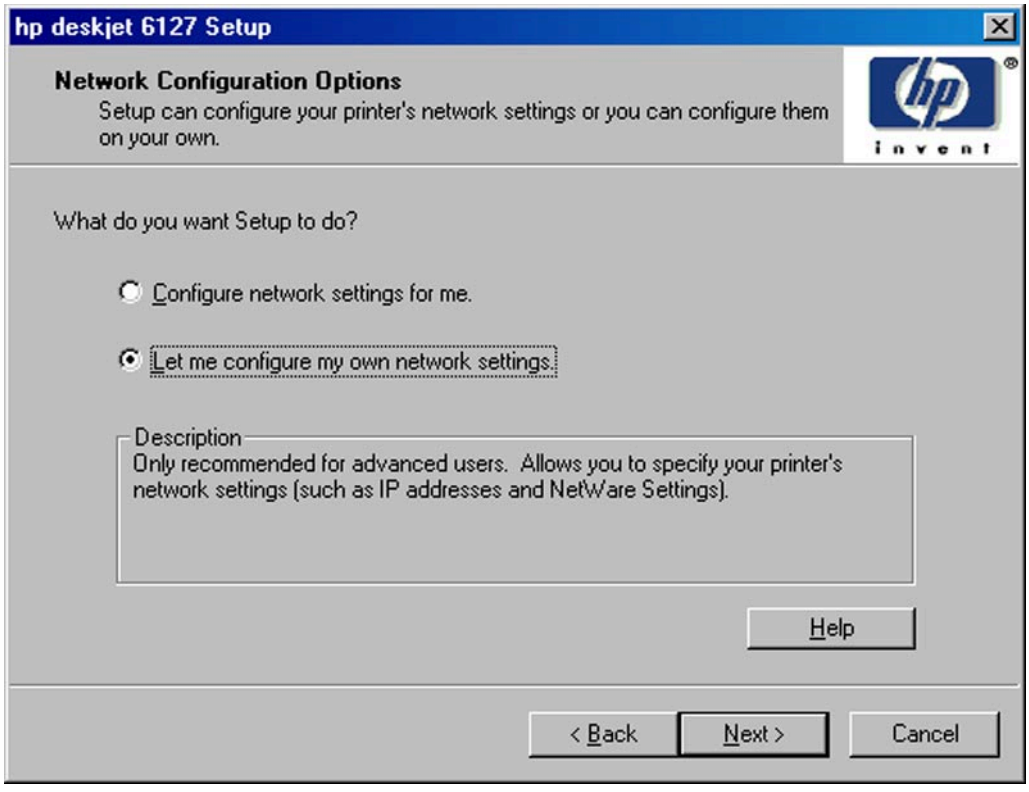



**Figure 2-26 Manual network Configuration selection**

12.)Select "Let me configure my own network settings and select Next.

## 2-13-2 Run Installation Wizard (cont'd)

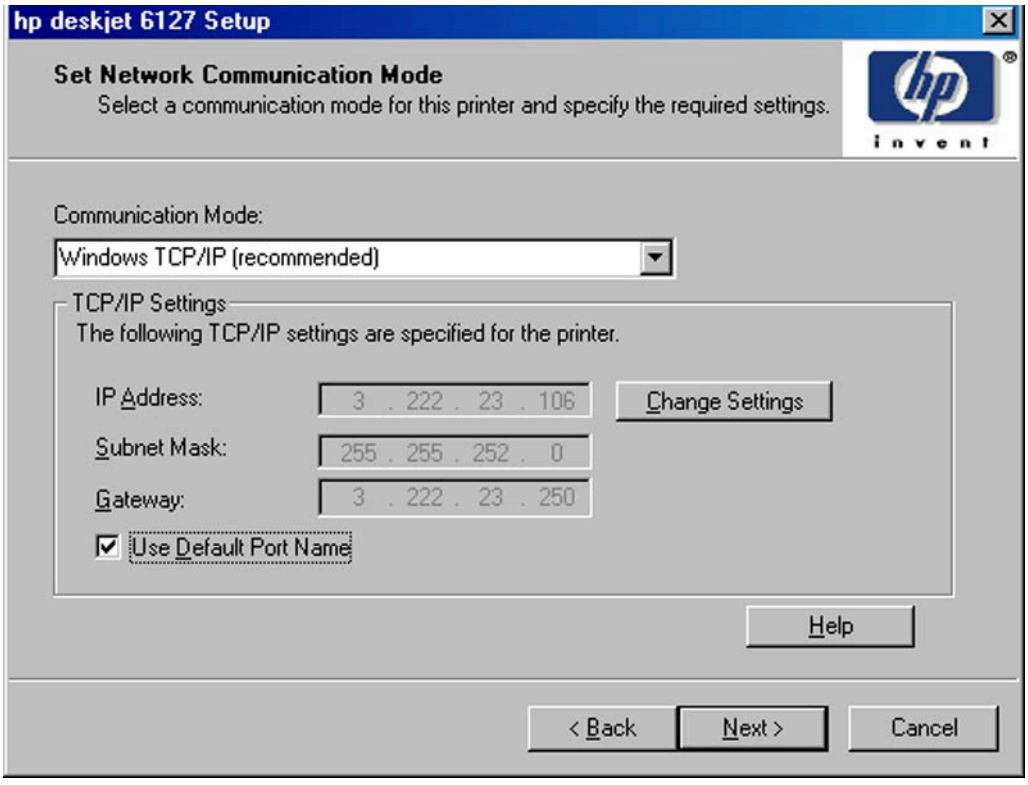



**Figure 2-27 Network setting**

13.) If this is a first time installation of the printer you probably need to change the TCP/IP settings for the printer.

14.) Select "Change Settings",.enter the correct TCP/IP settings for the printer, and select OK.

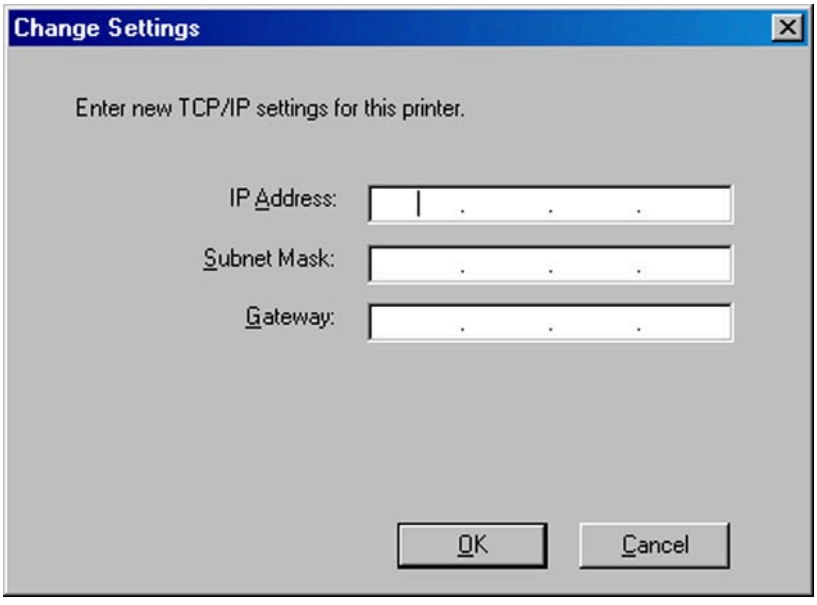



**Figure 2-28 Settings changing**

## 2-13-2 Run Installation Wizard (cont'd)

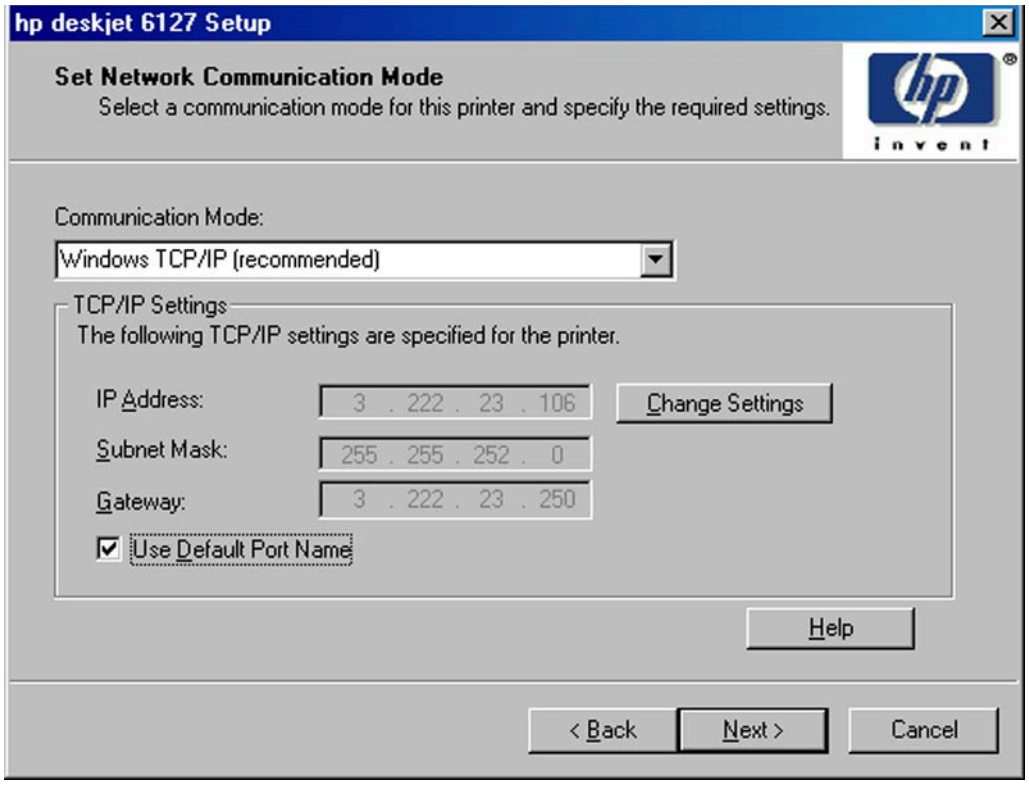



**Figure 2-29 Network communication settings result verification**

15.)Verify correct TCP/IP settings, and select Next.

## 2-13-2 Run Installation Wizard (cont'd)

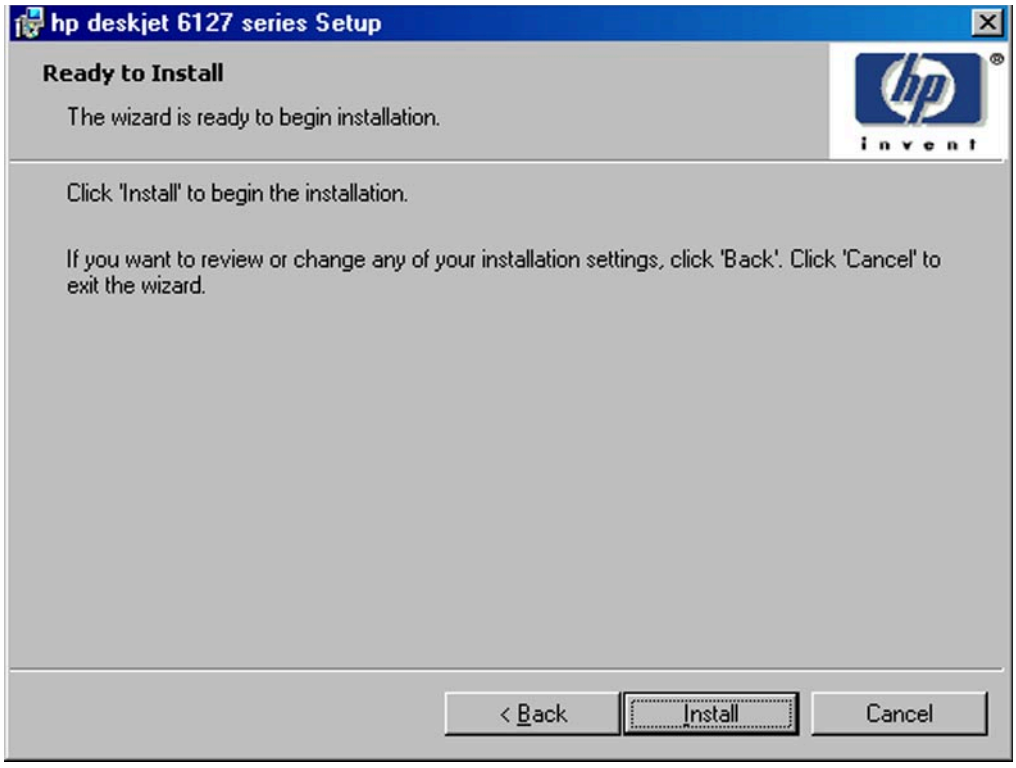



**Figure 2-30 Start Installation**

16.) Select "Install".

## 2-13-2 Run Installation Wizard (cont'd)

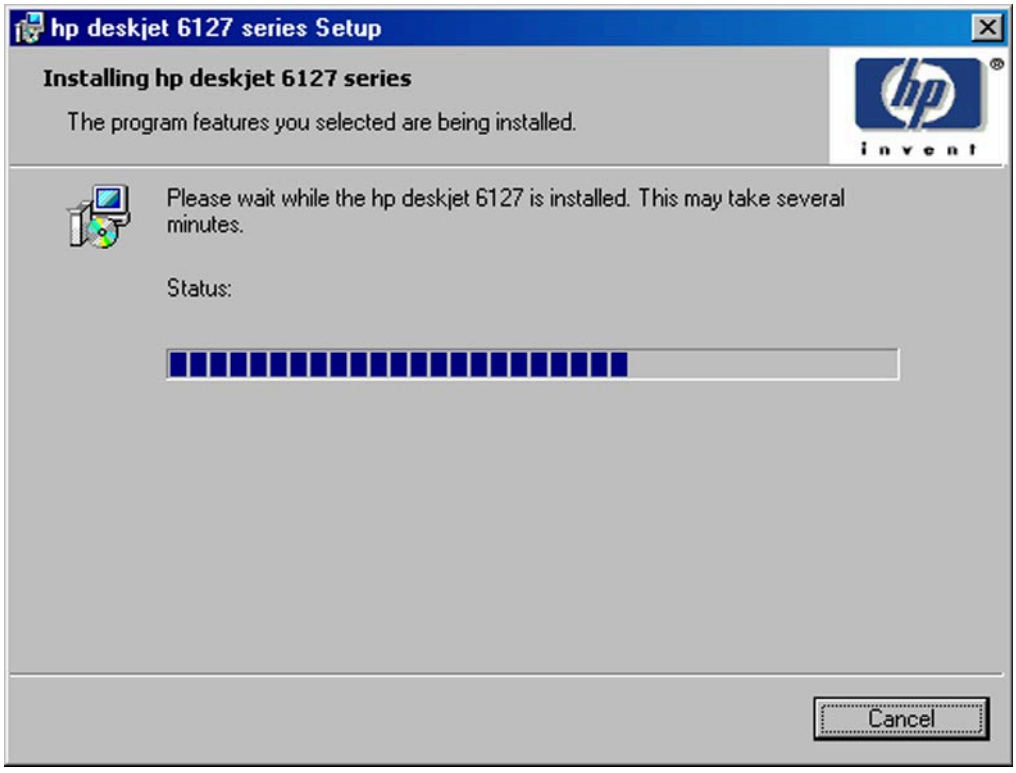



**Figure 2-31 Installation Progress**

17.)Select the "Print a test page" check box, and press "Finish".
18.)Verify that a test page is printed correctly from the HP6127 printer.

## 2-13-3 Set up Printer as Default Printer for Vivid 7

1.) Select CONNECTIVITY.
2.) Select ADDIONAL OUTPUTS.
3.) Select *Standard Printer settings*.
4.) Choose SELECT to dislay Print Setup.

*NOTE:* **With SW v2.3.0, steps 2 and 3 have the following text "**2.) Select SERVICES.,**and** 3.) Select *Standard Print*.**"**

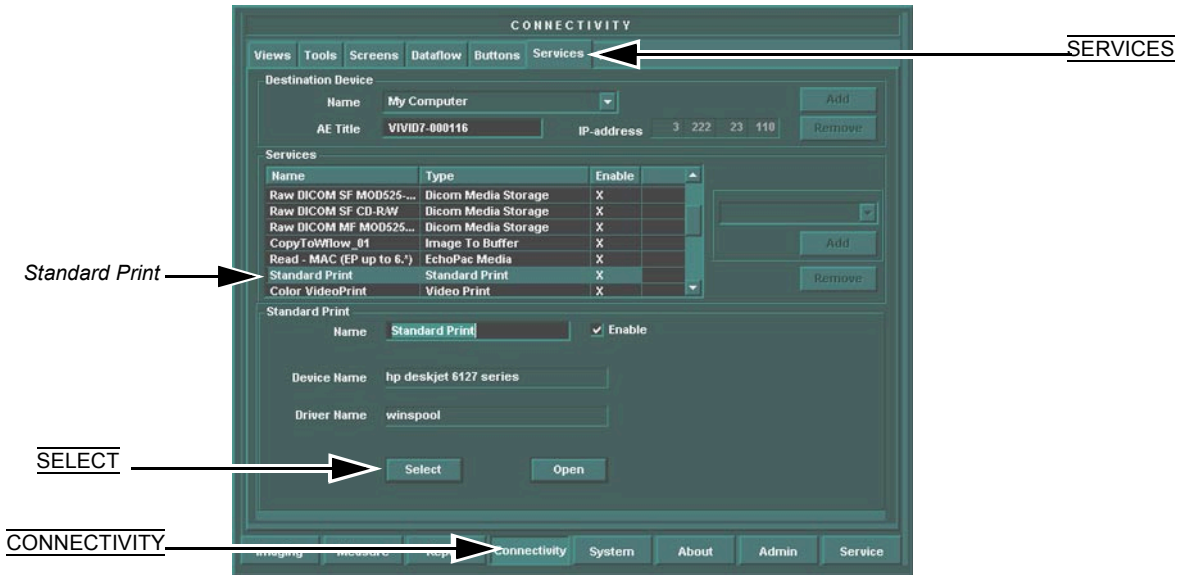



**Figure 2-32 Choosing Standard Print**

5.) Select Printer entry created by the wizard in Section 2-10 on page 2- 17.
6.) Select OK.

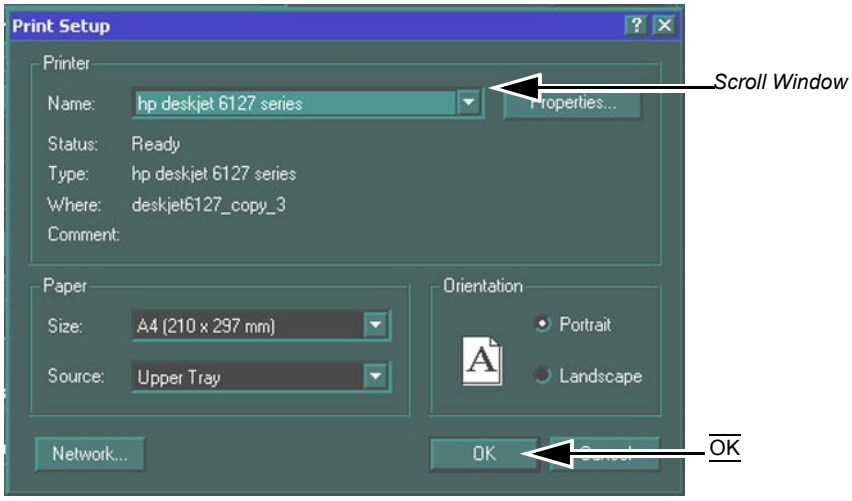



**Figure 2-33 Print Setup**

## 2-13-3 Set up Printer as Default Printer for Vivid 7 (cont'd)

7.) Select OPEN.

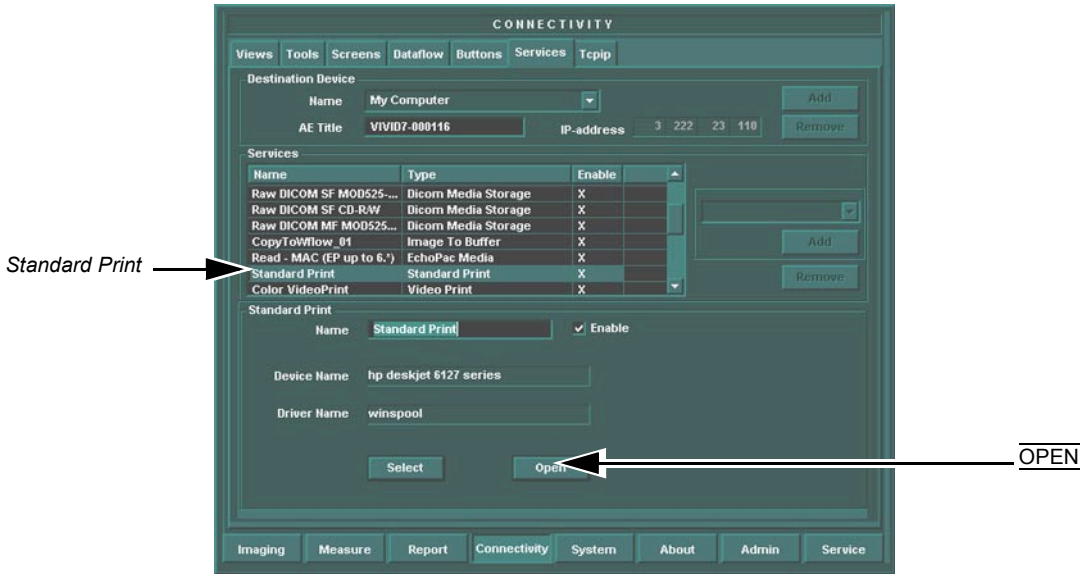



**Figure 2-34 Choosing Standard Print**

8.) Select *Printer*.

9.) Select *Set as Default Printer*.

10.) Close Window.

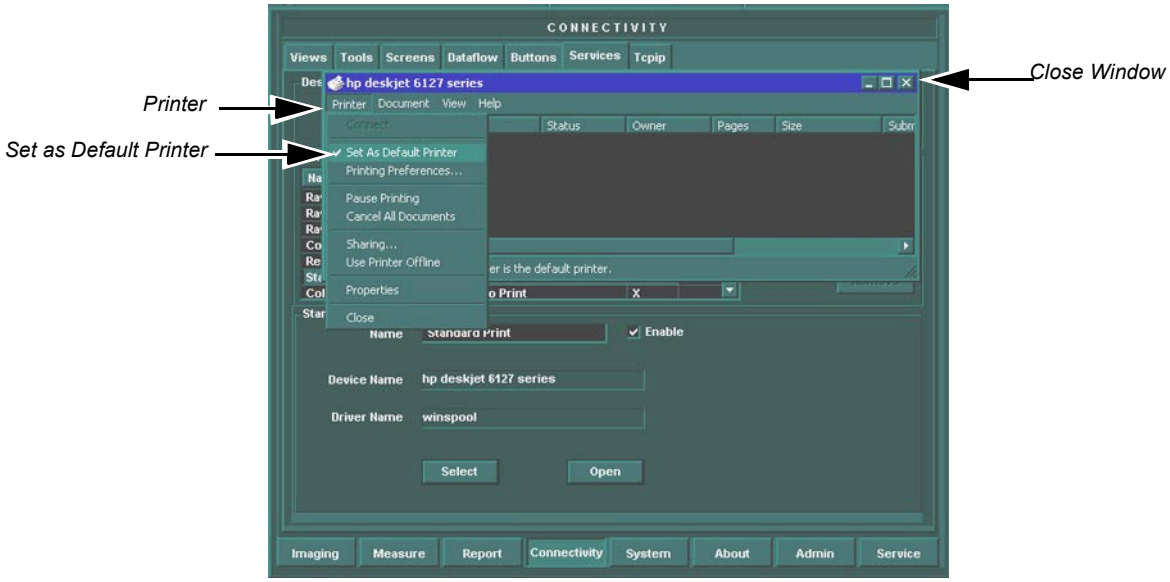



**Figure 2-35 Set as Default Printer**

11.) Select OK

12.) Select F2 to exit from Config

## 2-13-4 Check Printer Operation Vivid 7

1.) Verify that the Printer Power is ON.
2.) Insert paper in Printer.
3.) Wait until the Scanner has fully booted.
4.) Select user *adm*, then select LOG ON.

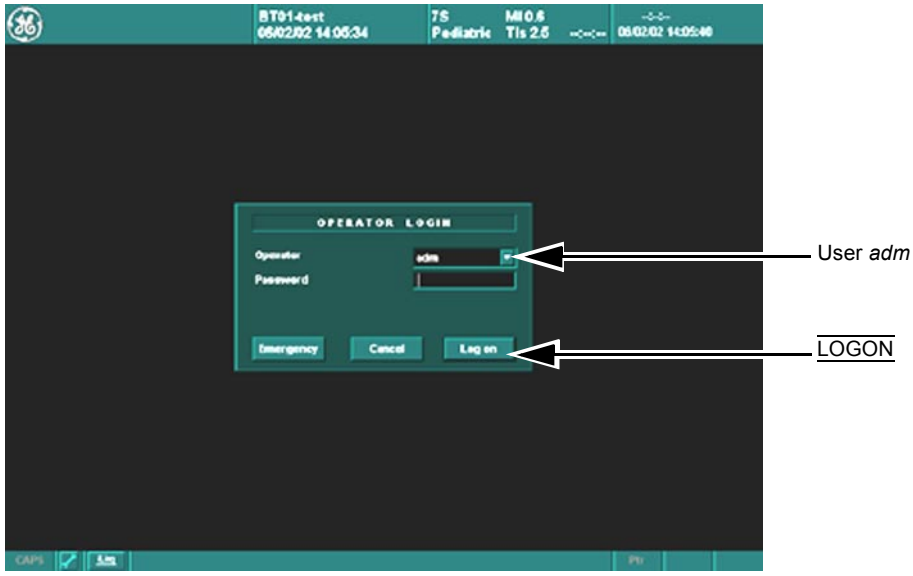



**Figure 2-36 Logon Window on Vivid 7**

5.) Push the **REPORT** button on the Vivid 7 Control Panel.

**Figure 2-37 Control Panel on Vivid 7**

## 2-13-4 Check Printer Operation Vivid 7 (cont'd)

6.) The screen in the figure below appears.

7.) Select MORE.

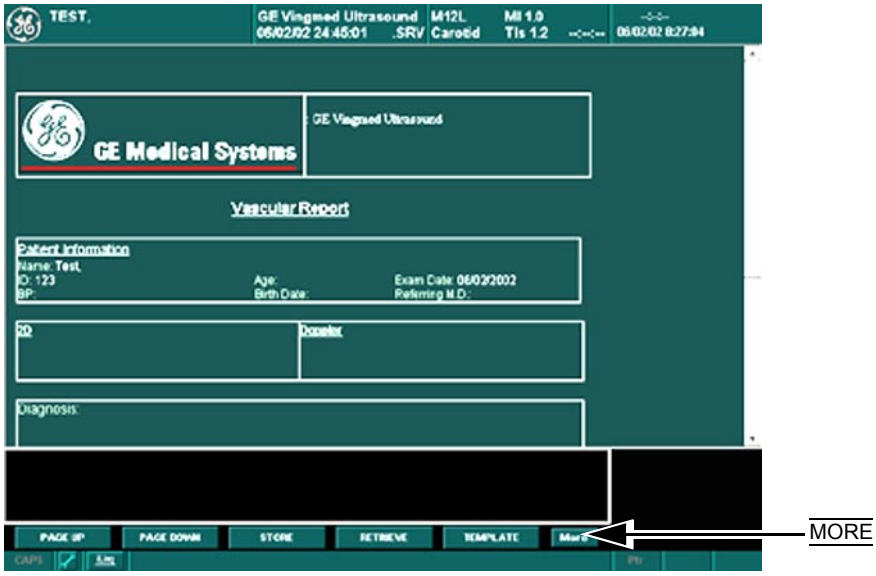



**Figure 2-38 Select More**

8.) Select PRINT.

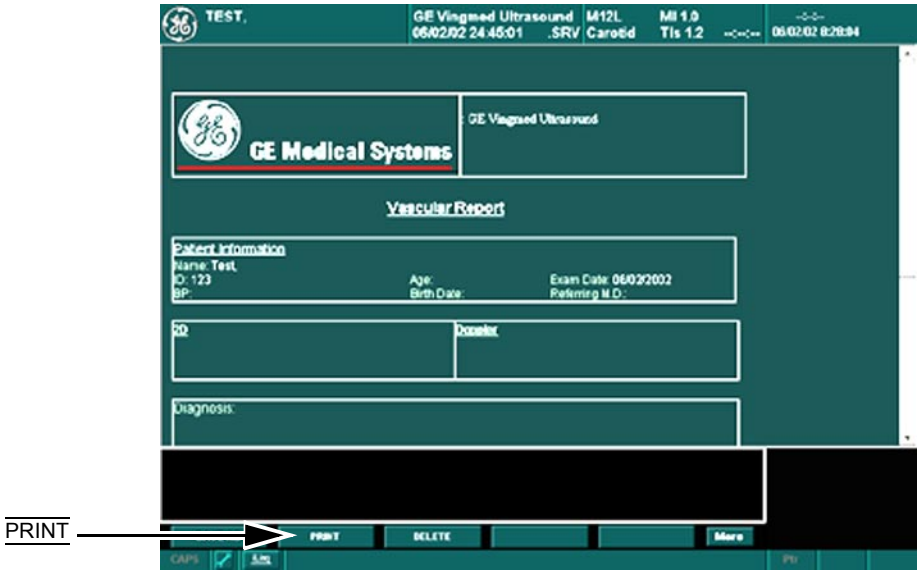



**Figure 2-39 Select Print**

If this page is printed, the HP Deskjet 6127 works successfully.

# Chapter 3
# EchoPAC PC Printer installations

## Section 3-1
## Overview

This chapter contains instructions on how to Install this Printer on the EchoPAC PC.

**Table 3-1 Main Steps in Chapter 1**


| Section | Description | Page Number |
|---|---|---|
| 3-1 | Overview | 3-1 |
| 3-2 | Unpacking | 3-2 |
| 3-3 | Hardware Overview | 3-3 |
| 3-4 | Hardware Installation | 3-4 |
| 3-6 | Check if HP6127 Printer Driver is installed | 3-6 |
| 3-7 | Pre Installation Backup | 3-7 |
| 3-4 | Record SW Options Keys and TCP/IP Settings | 3-9 |
| 3-5 | Software Installation on EchoPAC PC | 3-14 |
| 3-6 | Restore Recorded Software Options Keys and TCP/IP Settings | 3-20 |
| 3-7 | Configure EchoPAC PC for an already working printer | 3-21 |
| 3-8 | Configure EchoPAC PC for a New Printer | 3-30 |

# Section 3-2
# Unpacking

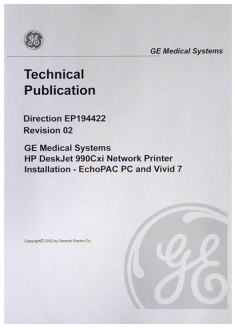
1.) Unpack the printer with accessories.
2.) Make sure that the delivery is complete. See Table 1-2 on page 1-3 , and Figure 3-1 on page 3-2 .

Software

SW Installation CDs

Power Cable US

Ethernet Cable




Installation Manual

Power Cable Europe standard

Twisted Ethernet Cable

**Figure 3-1 Furnished Materials**

# Section 3-3
# Hardware Overview

## 3-3-1 HP DeskJet 6127

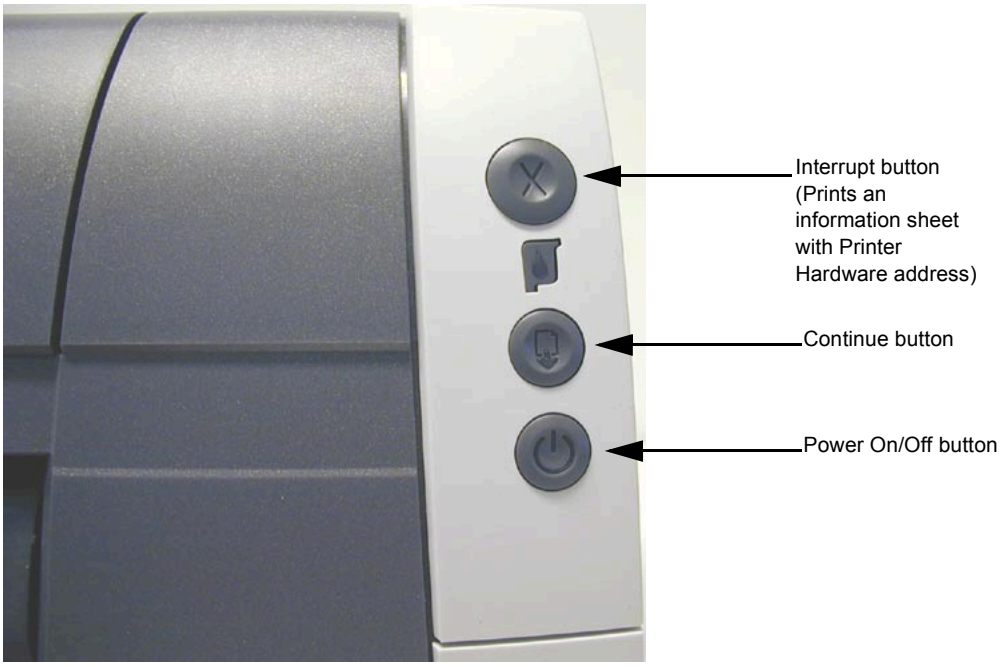



**Figure 3-2 Buttons and LEDs on the front of the printer**

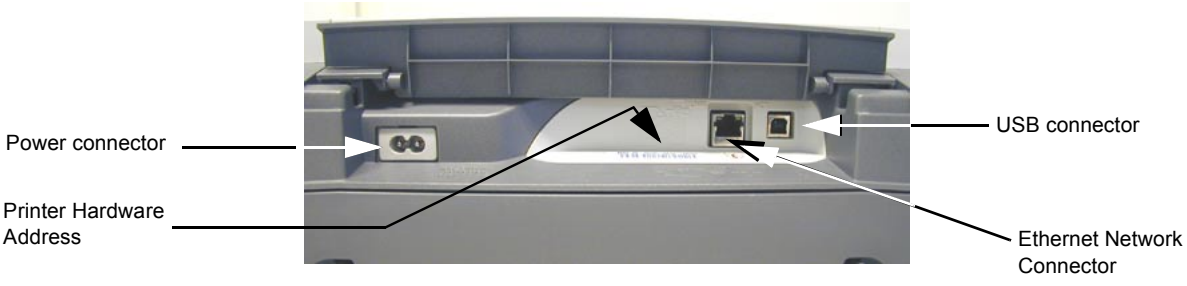



**Figure 3-3 Connectors on the rear of the printer**

# Section 3-4
# Hardware Installation

## 3-4-1 Printer directly connected to EchoPAC PC

1.) Connect the HP DeskJet Printer to the AC mains outlet.

2.) Connect the twisted Ethernet Cable (070D2951) from the Deskjet Printer directly to the Ethernet Connector on EchoPAC PC.

.

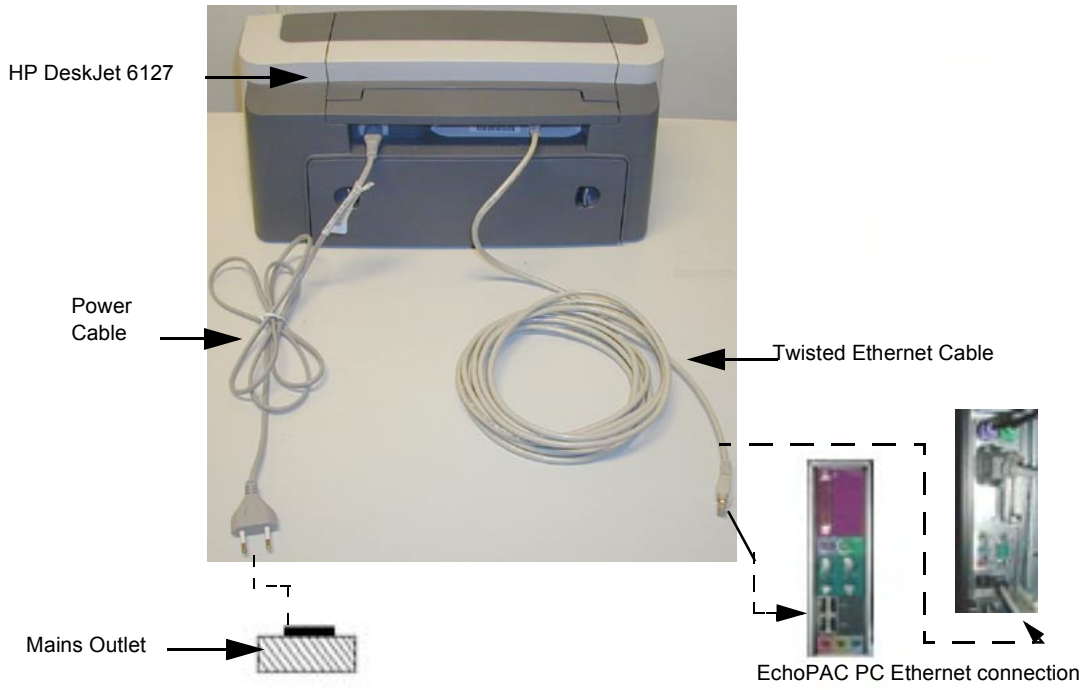



**Figure 3-4 DeskJet Printer connections overview**

# Section 3-4 Hardware Installation (cont'd)

## 3-4-2 Printer connected via network

1.) Connect the HP DeskJet Printer to the AC mains outlet.
2.) Connect the Ethernet Cable (070D2950) to the Deskjet Printer and the Ethernet Switch.
3.) Connect the Ethernet Cable (070D2950) from the Ethernet Switch to the EchoPAC PC.

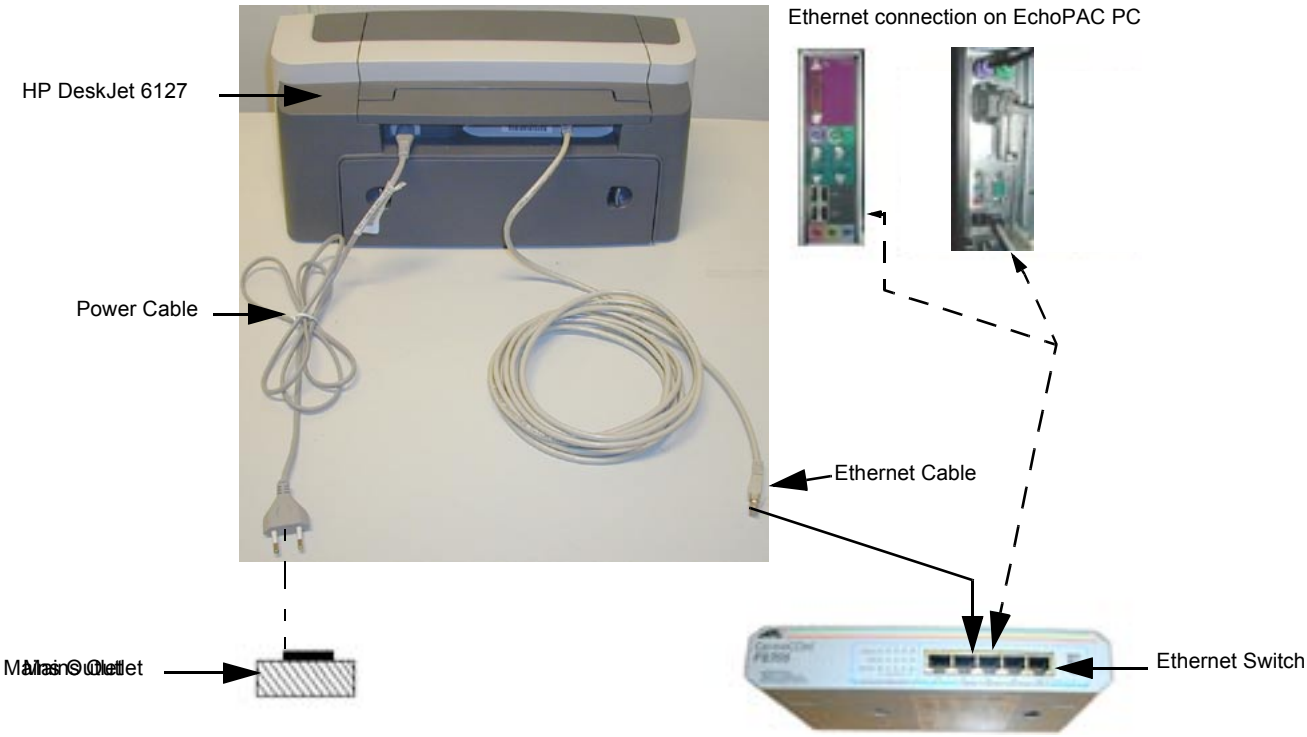



**Figure 3-5 DeskJet Printer Network connections overview**

# Section 3-5
# Check SW versions and PC type

1.) Record the current software versions, see 3-4-1-2 "Record Current System Software Version" on page 3-10.
   - Application Software Version (v.__.__.___)
   - System Software (v.1.__.___)
2.) Record the PC type:
   - For some software versions the PC type is listed on the same page as the software versions, see 3-4-1-2 "Record Current System Software Version" on page 3-10.

# Section 3-6
# Check if HP6127 Printer Driver is installed

1.) Select **CONFIG** (F2) on the Qwerty Keyboard on the operator panel.

*NOTE: If not already Logged ON the Operator Log On window is displayed.Select adm from the Operator pull-down menu and select Log On.*

2.) Select CONNECTIVITY.
3.) Select ADDITIONAL OUTPUTS.
4.) Select *Standard Printer Settings*.
5.) **SELECT** to display Print Setup.
6.) Examine the List in the scroll window.

*NOTE:* **With SW v2.3.0, steps 3 and 4 have the following text "**3.) Select SERVICES.**,and** 4.) Select *Standard Print*.**"**

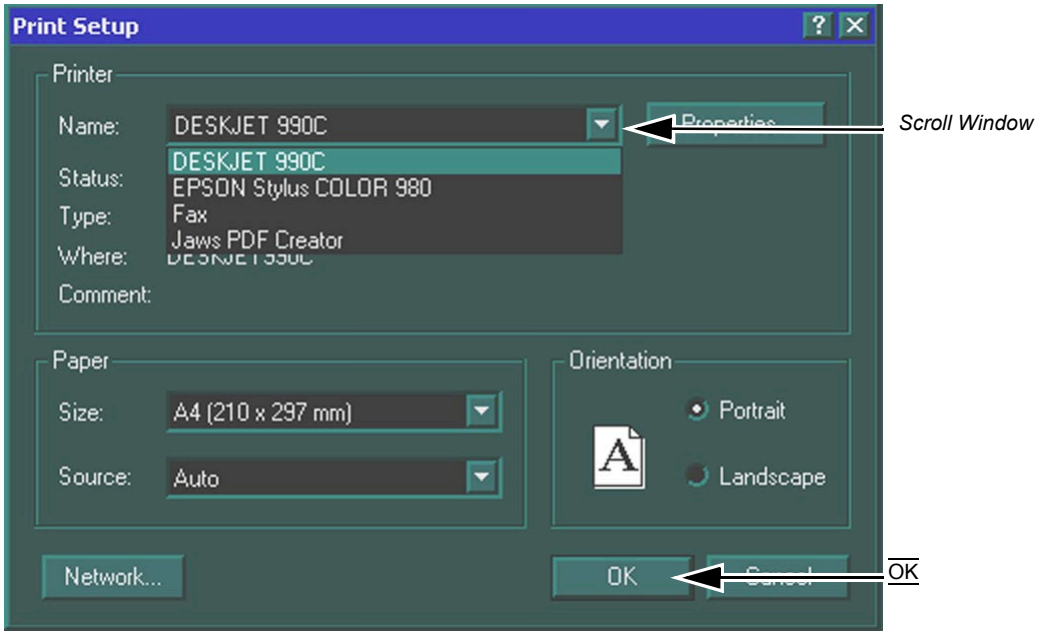



**Figure 3-6 Print Setup**

7.) If the HP Deskjet 6127 is listed in the Scroll Window, click OK twice and continue from Section 3-8 on page 3-30.
8.) If the HP Deskjet 6127 is not listed in the Scroll Window, click OK and continue from Section 3-8 on page 3-30

Select OK close the Print Setup Window.

# Section 3-7
# Pre Installation Backup

1.) Select **CONFIG** (F2) on the Qwerty Keyboard on the operator panel.

## 3-0-1 Backup procedure

Use a blank dedicated MO disk when doing a backup. This MO disk should only be used for backup/ restore purpose (Do not use this MO disk when doing Export or Save as.). The backupprocedure will OVERWRITE the existing data on the MO disk.

⚠ **CAUTION** *When formatting the MO disk, give it a logical name and make sure to physically label the disk with the mention "Backup". A labelling convention should be followed so that each MO disk gets a unique label.*

If moving images, make sure to have enough formatted MO disks before disponible.

1.) Insert a dedicated formatted (see page 435) MO disk in the MO drive.
2.) Press **CONFIG** (**F2**) on the alphanumeric keyboard. The *Log In window* is displayed asking for operator ID and password.
3.) Select the user with administration rights and enter the password.
4.) Select **Log on**.The *Setup dialogue window* is displayed.
5.) Select the *Admin setup category*.The *Backup sheet* is displayed (Figure 8-35).
6.) Select:
   - **Patient archive** to backup patient records and reports.
   - **System setting** to copy system settings and user presets. The system configuration backup can be used to configure several EchoPAC PC units with identical presets, providing the units have the same software version.
   - **Move oldest images** to move images and reports from the local harddrive onto MO disks. Adjust the time span next to **Older than** to move images and reports older than that setting.
7.) Select the MO disk as destination.
8.) Press **Backup Now**.
   - The system is checking that the MO disk is inserted. If not, a dialogue window is displayed prompting the user to insert a MO disk. Press **OK** to resume backup.
   - The system is checking that the MO disk is formatted. If not, a dialogue window is displayed prompting the user to format the disk.
   - The system is checking the available space on MO disk for the patient archive. If there is not sufficient free space a dialogue window is displayed. Press **OK**, the media is ejected and insert a new formatted MO disk. A progress dialogue is displayed showing the current operation being performed. If the amount of data exceeds the capacity of the MO disk the user is prompted to insert a new (formatted) MO disk. At the end of the process a status for each item is displayed in the *Result column*. If errors occur during backup, a list of the patient records/ examinations that could not be backed up is displayed.

## 3-0-1 Backup procedure (cont'd)

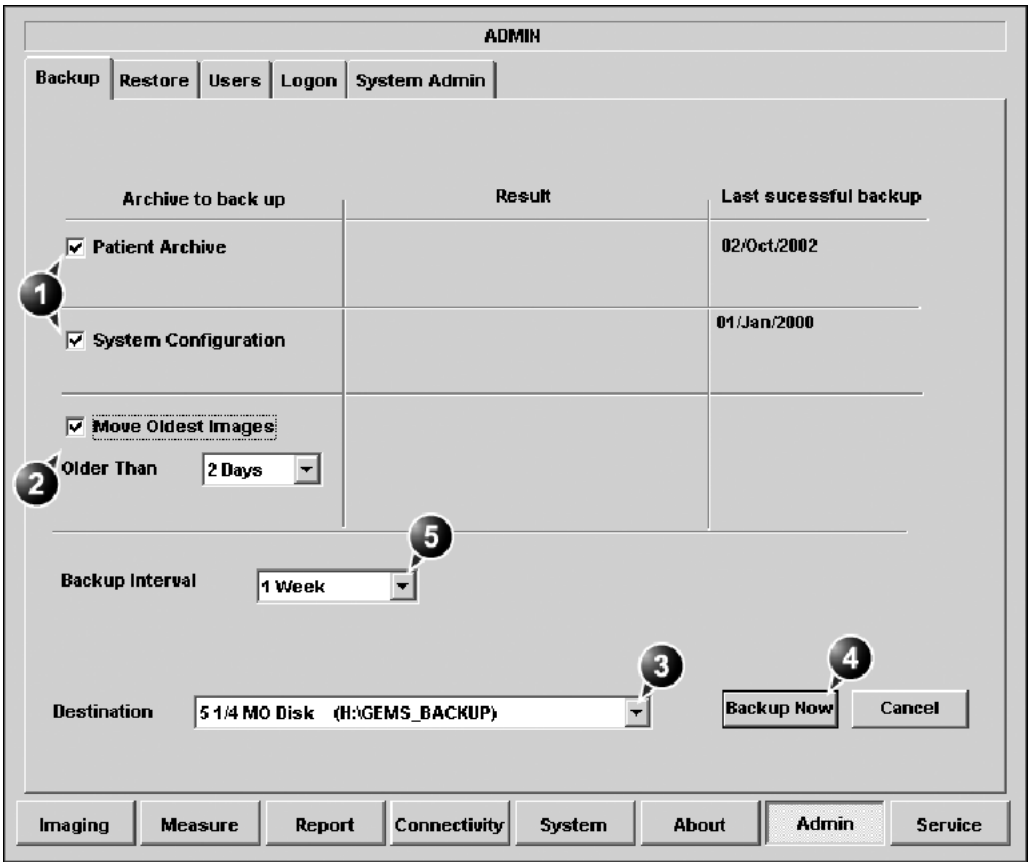



**Figure 3-1 The Backup sheet**

1.) Select the item to backup
2.) Select and adjust the Move images function
3.) Select the MO disk as backup destination
4.) Start backup
5.) Adjust the backup reminder
6.)

# Section 3-4
# Record SW Options Keys and TCP/IP Settings

## 3-4-1 Record SW Options Keys

1.) Select CONFIG.
2.) Select ADMIN.
3.) Select the SYSTEM ADMIN tab.

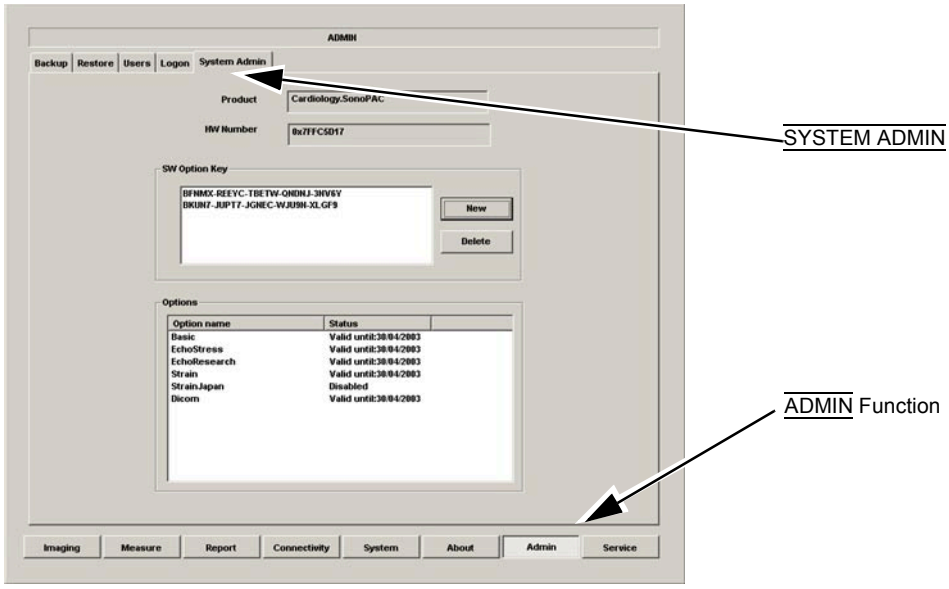



**Figure 3-7 Locating SW Option Keys**

4.) Record SW Options Key(s) from SW Options key window.

*NOTE: Make sure that the SW keys have been recorded correctly. If the hardware ID s incorrect, you will not be able to log on after the SW installation has been completed. The key is case sensitive. Hyphenates must also be recorded. There may be more than one key.*

**Table 3-1 Software Option Keys**

| Software Option Keys |
|---|
| |
| |
| |
| |
| |

### 3-4-1-1 Record TCP/IP Settings

1.) Select CONFIG.
2.) Select CONNECTIVITY.
3.) Choose TCPIP tab.

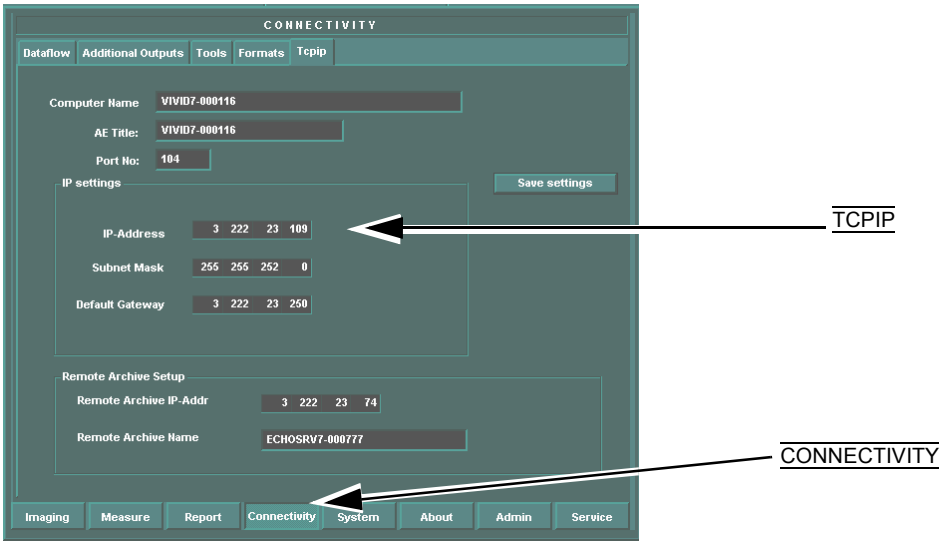



**Figure 3-8 TCP/IP Example Settings**

4.) Record all settings (you may use the table below).

.

**Table 3-1 TCPIP Settings Table**

| Function | Setting |
|---|---|
| Computer Name | EchoPAC PC- |
| IP-Address | |
| Subnet Mask | |
| Default Gateway | |
| AE Title | |
| Port | |

### 3-4-1-2 Record Current System Software Version

1.) From the alphanumeric keyboard on the Operator Panel, press **CONFIG** (F2 key)
2.) From the operator log in window, select ADM from the pull down menu.
3.) Select LOG ON. (No password needed).
4.) Select ABOUT tab.

Verify that the SW versions are the same as on the CD you installed from.

## 3-4-2 Record IP and Port Settings

**NOTICE** This procedure is only valid when replacing a printer.

1.) Select CONFIG.
2.) Select CONNECTIVITY.
3.) Select ADDITIONAL OUTPUTS.
4.) Select *Standard Printer Settings*.

*NOTE:* **With SW v2.3.0, steps 3 and 4 have the following text "**3.) Select SERVICES.,**and** 4.) Select *Standard Print*.**"**

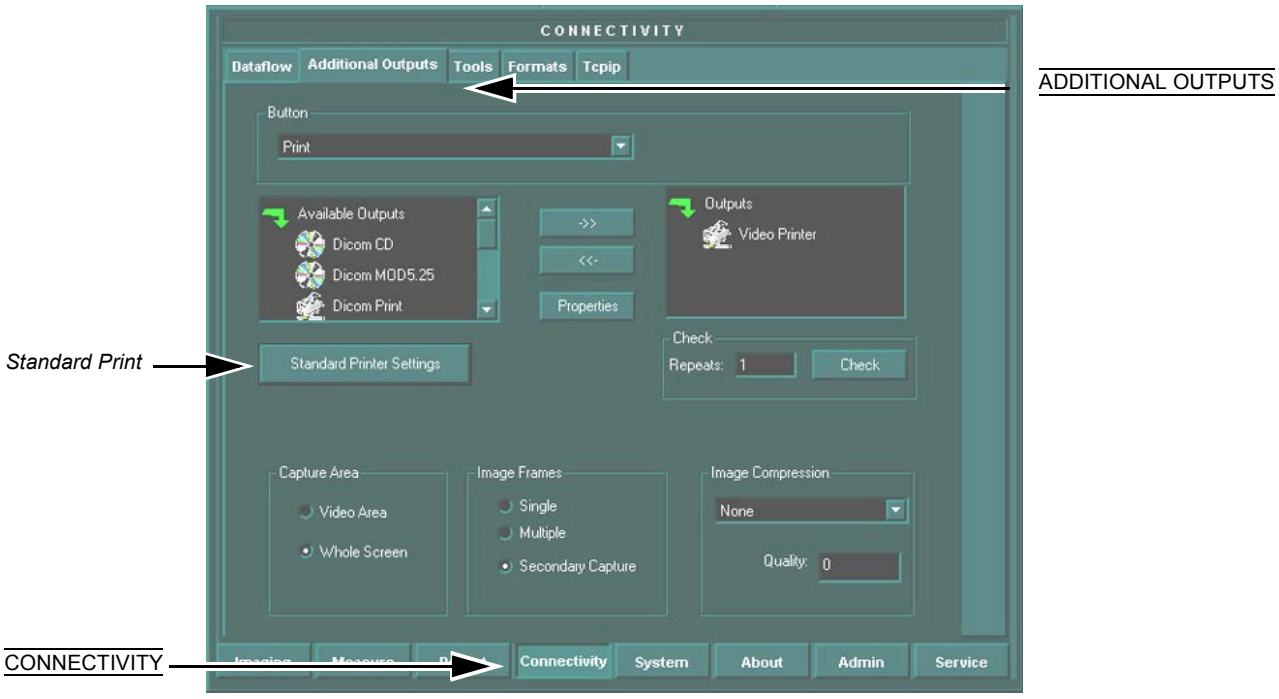



**Figure 3-9 Choosing Standard Print**

5.) Select OPEN.
6.) Select *Printer*.
7.) Select *Properties*.

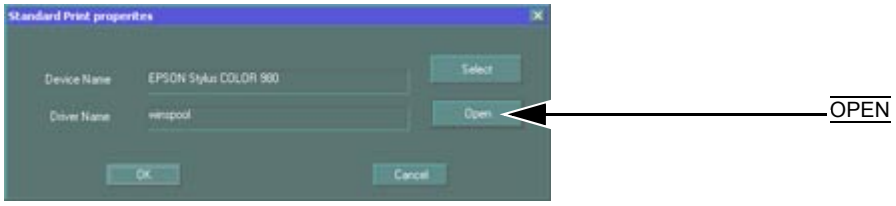



**Figure 3-1 Standard Printer Settings Dialog**

## 3-4-2 Record IP and Port Settings (cont'd)

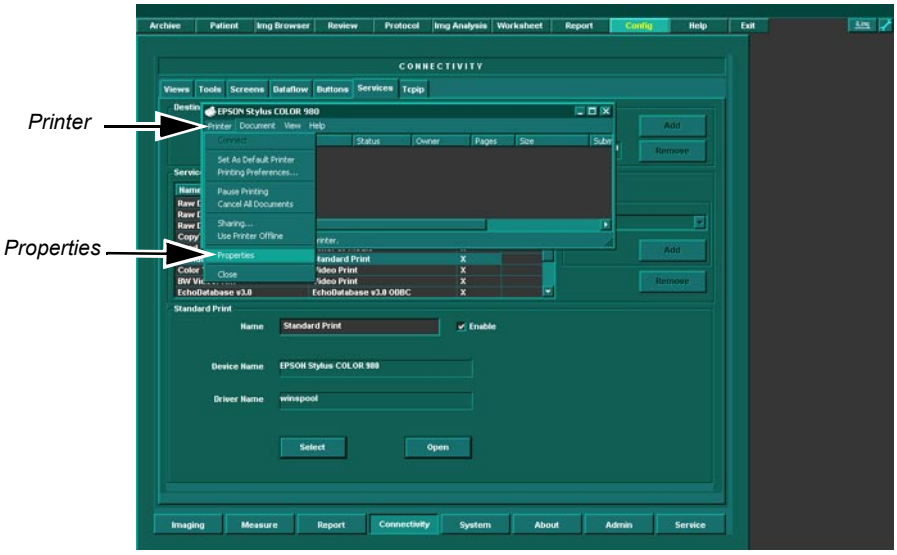



**Figure 3-10 Properties**

## 3-4-2 Record IP and Port Settings (cont'd)

8.) Select Ports Tab.

9.) Select *default printer settings*.

10.) Select CONFIGURE PORT.

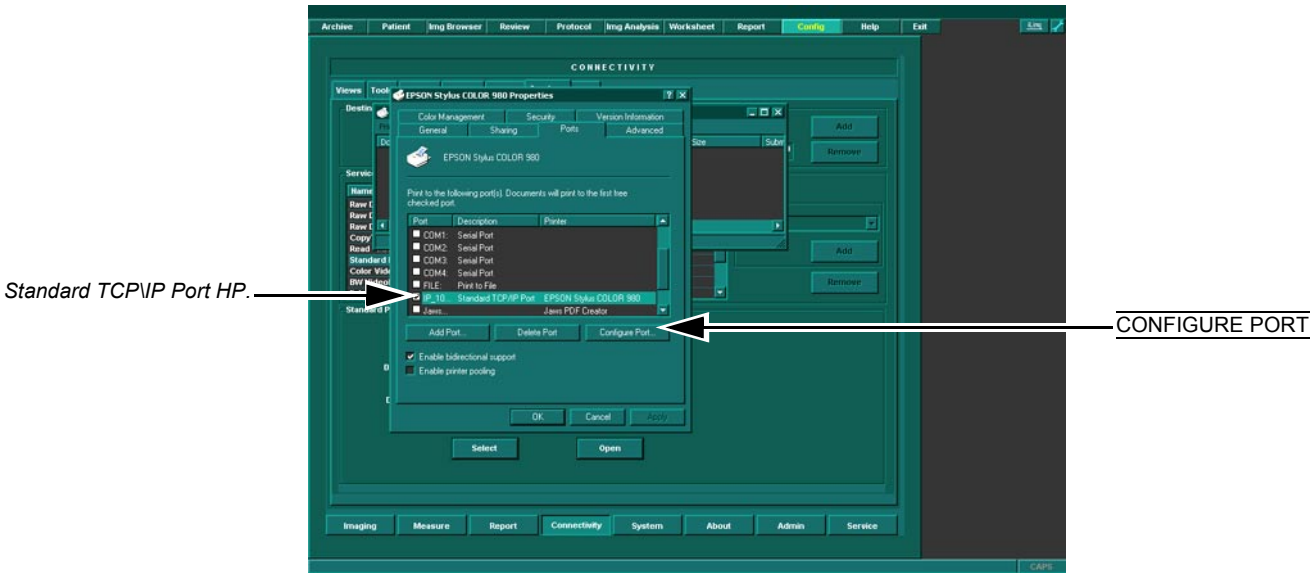



**Figure 3-11 Configure Port**

11.) Select and Record *Printer Name or IP Address*.

12.) Select *Raw.*

13.) Select and Record *Port Number*.

14.) Select CANCEL twice to close Printer Setup window

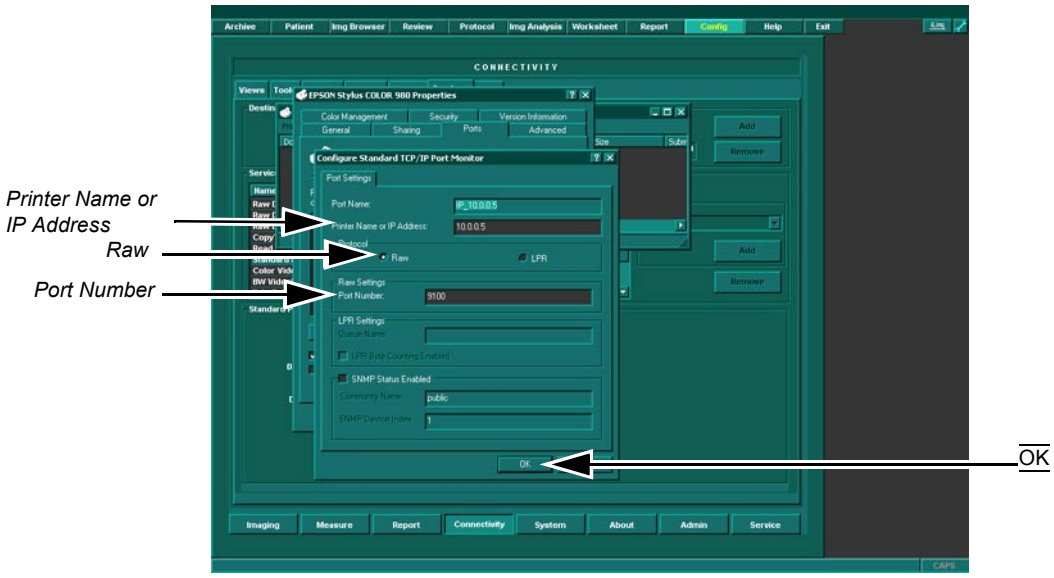



**Figure 3-12 Configure Port**

15.) Close rest of the Windows by selecting OK.

# Section 3-5
# Software Installation on EchoPAC PC

1.) Insert the System Software Installation CD for EchoPAC PC into the CD Drive. See Table 1-2 on page 1-3
2.) Shut down EchoPAC PC.
3.) Boot EchoPAC PC. It boots from the Ghost CD and the Ghost program starts.

**Figure 3-13 Steps of startup**

4.) When requested, enter the unit's Computer Name (See 3-4-1-1 on page 3-10 ).

**Figure 3-14 Computer Name entry**

## Section 3-5 Software Installation on EchoPAC PC (cont'd)

5.) When requested, choose method **B**.

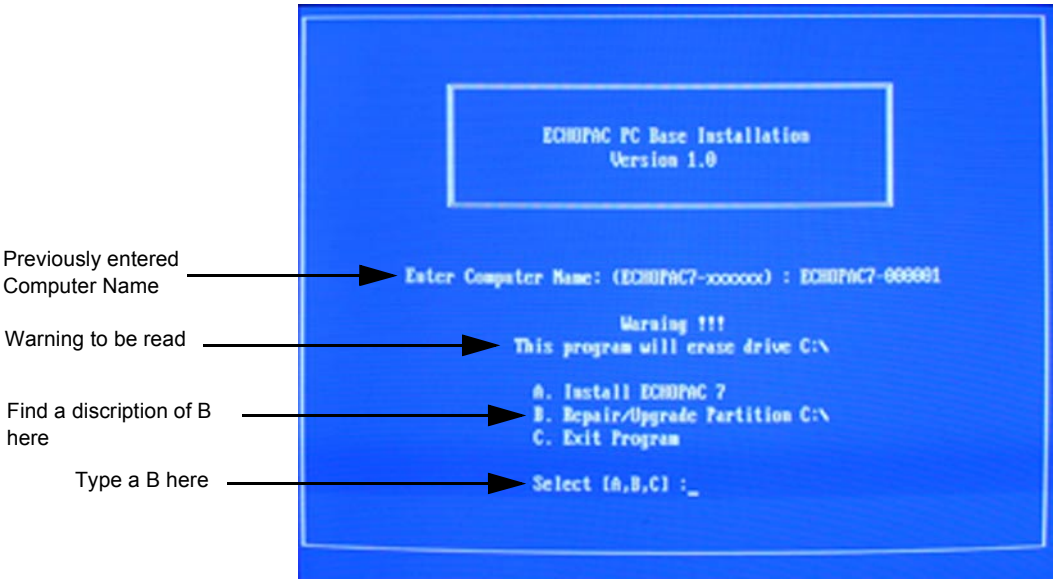



**Figure 3-15 Installation Type Selection**

*NOTE: When option **B** is selected-**only drive C:** will be deleted, but patient data and user settings are unaffected.*

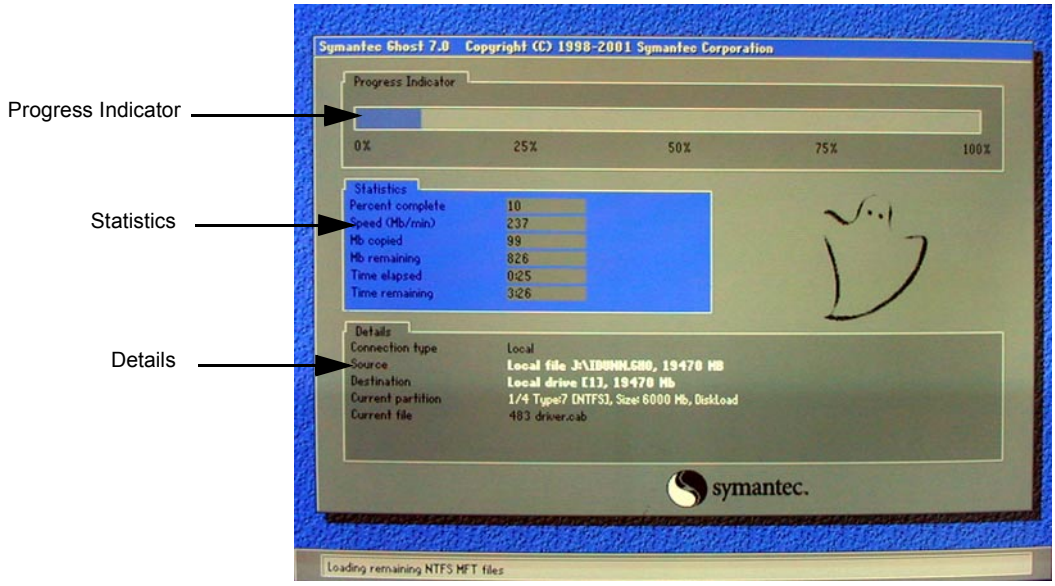



**Figure 3-16 Ghost Installation Progress**

## Section 3-5 Software Installation on EchoPAC PC (cont'd)

6.) Wait for the Software installation to be performed. (Typically installation time: 10 minutes). A status bar on the screen indicates the progress.

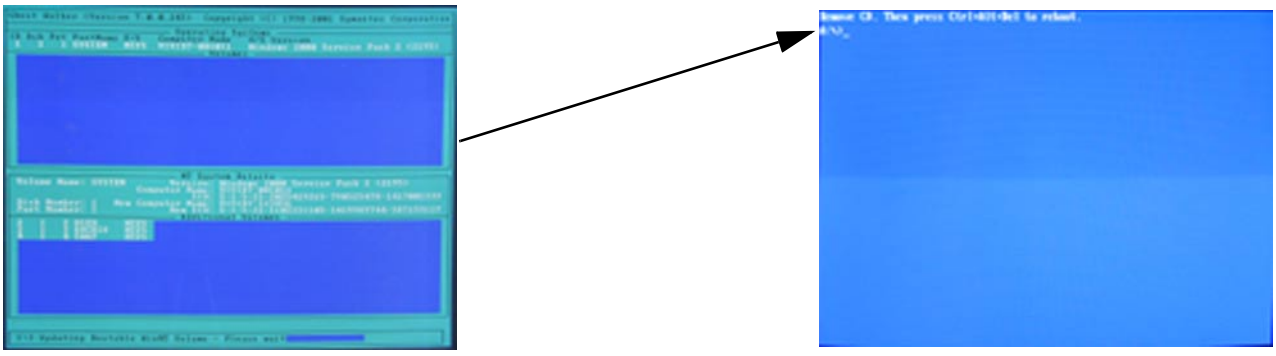


**Figure 3-17 Ghost completes and hands the command over to DOS**

7.) After the installation you are prompted to remove the inserted CD and enter CD-2.

8.) Select the **EJECT** button on the CD drive and remove the CD.

9.) Insert the correct Application Software CD as shown in Section 1-4 - Furnished Materials.

*NOTE: For Field Upgrades it is 2.3.0 SW.For installation on new scanners it is 3.0.0 SW*

10.) Select CTRL/ALT+DEL to Re-boot EchoPAC PC.

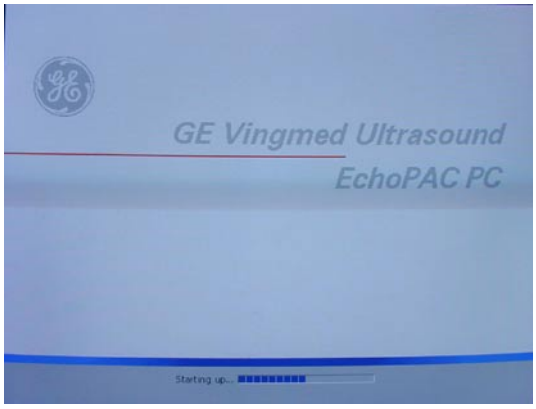



**Figure 3-18 Start Picture**

## Section 3-5 Software Installation on EchoPAC PC (cont'd)

11.) When PC is rebooted, select INSTALL SW in the dialog box.

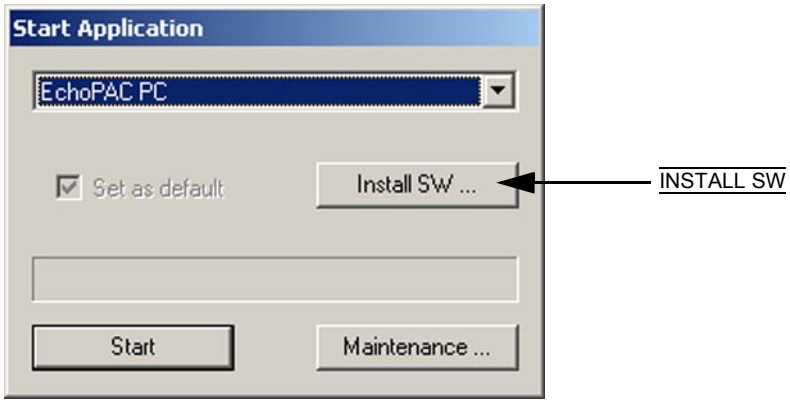



**Figure 3-19 Start Application**

12.) Select OK.

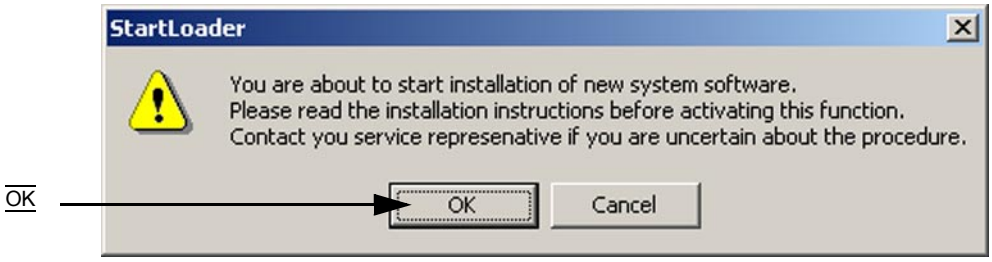



**Figure 3-20 StartLoader**

13.) Select OK.

**Figure 3-21 StartLoader**

## Section 3-5 Software Installation on EchoPAC PC (cont'd)

14.) Select any key to continue.

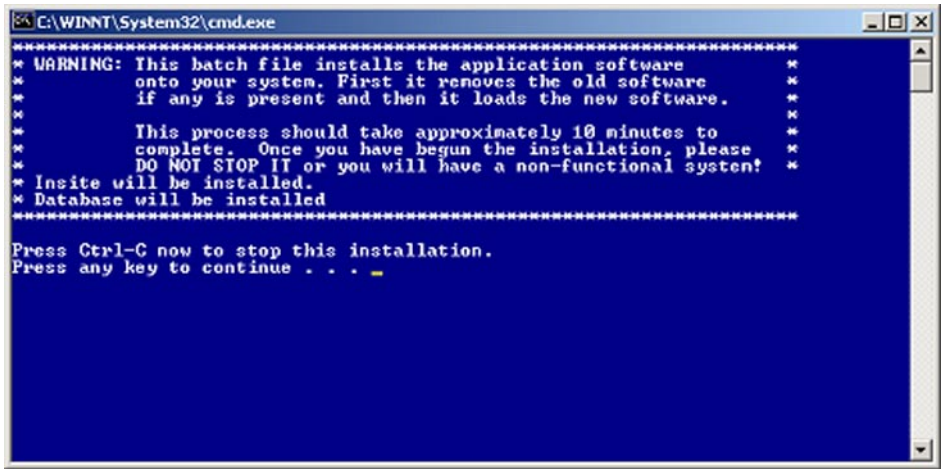



**Figure 3-22 Continue the Installation**

*NOTE: At this point the Windows OS is in a unstable condition, do not interrupt the software installation or close the cmd.exe window during the installation of the Application Software. This will cause the Installation to fail.*

15.) The system will now be loaded with GEVU software. When Sw installation is completed the following will appear on the screen:

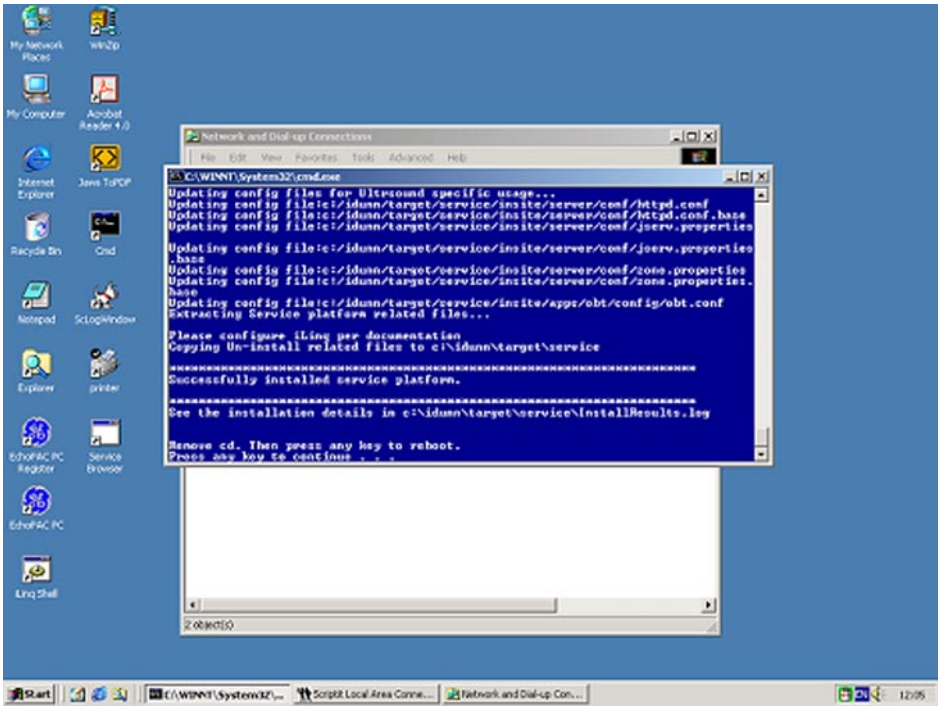



**Figure 3-23 SW Installation completed**

## Section 3-5 Software Installation on EchoPAC PC (cont'd)

16.) Remove the CD and Select any key to reboot.

17.) The unit will boot up from the installed software. The first startup from new software may be slightly slower than a normal startup.

# Section 3-6
# Restore Recorded Software Options Keys and TCP/IP Settings

## 3-6-1 Restore Recorded Software Options Keys

1.) Select CONFIG.
2.) From the ADMIN tab select SYSTEM ADMIN .
3.) Restore the recorded SW Options keys in the SW Options key window

## 3-6-2 Restore Recorded TCP/IP Settings

1.) When system is up and running go to CONFIG->CONNECTIVITY->TCP/IP tab.
2.) Insert settings you wrote down in 3-4-1-1 on page 3-10 .
3.) Select SAVE SETTINGS.

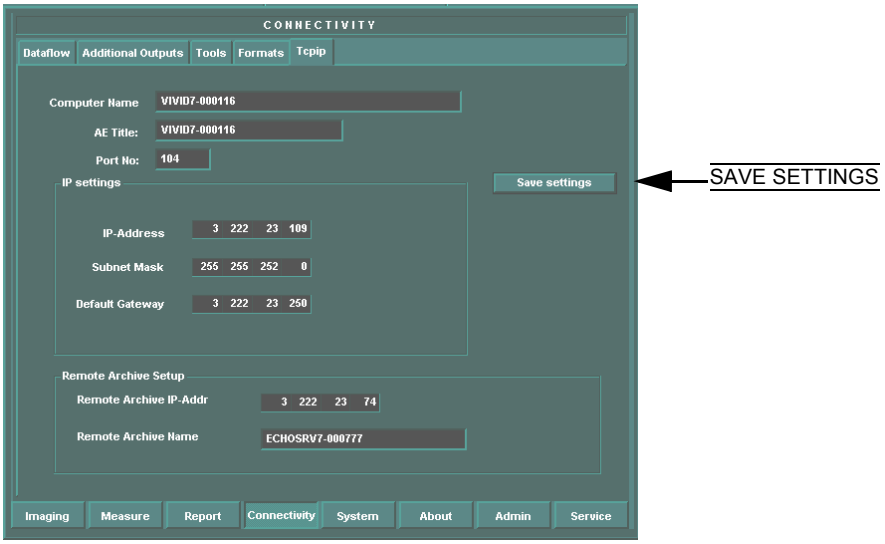



**Figure 3-24 TCPIP TAB Screen.**

4.) You are prompted that the system has to reboot, select OK. On the Are you Sure...Warning Select OK once more.
5.) Reboot the EchoPAC PC.

# Section 3-7
# Configure EchoPAC PC for an already working printer

**NOTICE** Use this section when configuring EchoPAC PCs for the use of a printer already configured for use on another EchoPAC PC. If the printer has not been used before go to Section 3-8 on page 3-30.

## 3-7-1 Set up Printer as Default Printer for EchoPAC PC

1.) Select CONNECTIVITY.
2.) Select ADDITIONAL OUTPUTS.
3.) Select *Standard Printer Settings*.
4.) Select SELECT.

*NOTE:* **With SW v2.3.0, steps 3 and 4 have the following text "**3.) Select SERVICES.,**and** 4.) Select *Standard Print*.**"**

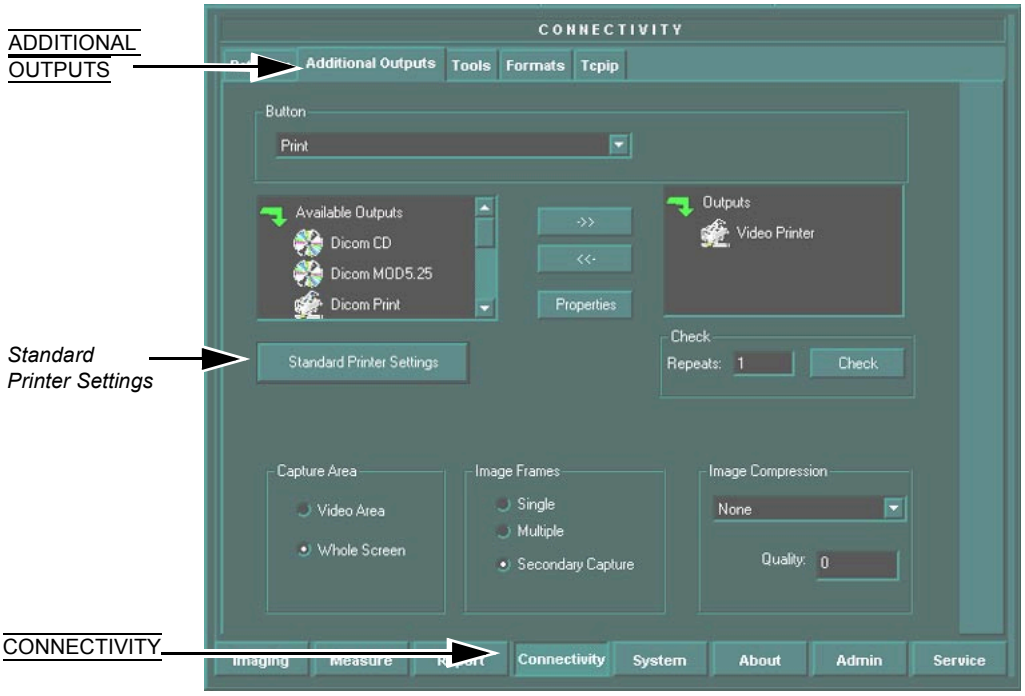



**Figure 3-25 Choosing Standard Print**

5.) Select HP Deskjet 6127 in the Scroll Window.and Select OK.

## 3-7-1 Set up Printer as Default Printer for EchoPAC PC (cont'd)

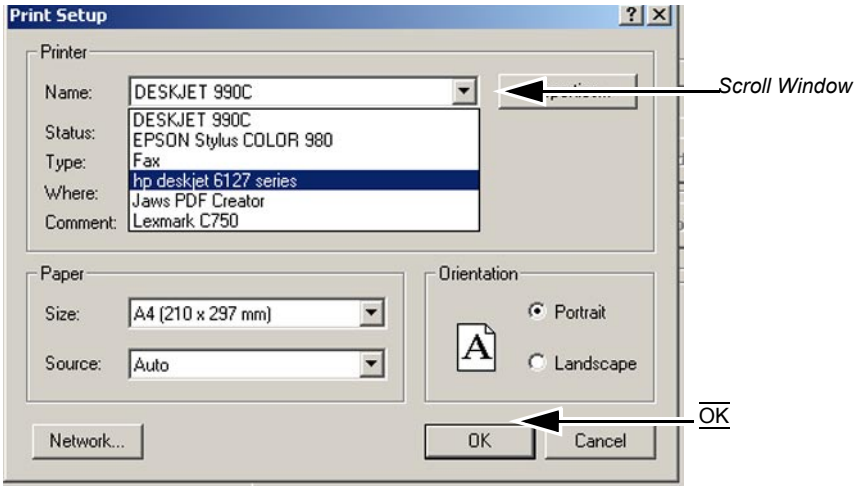



**Figure 3-26 Print Setup**

## 3-7-1 Set up Printer as Default Printer for EchoPAC PC (cont'd)

6.) Select OPEN.

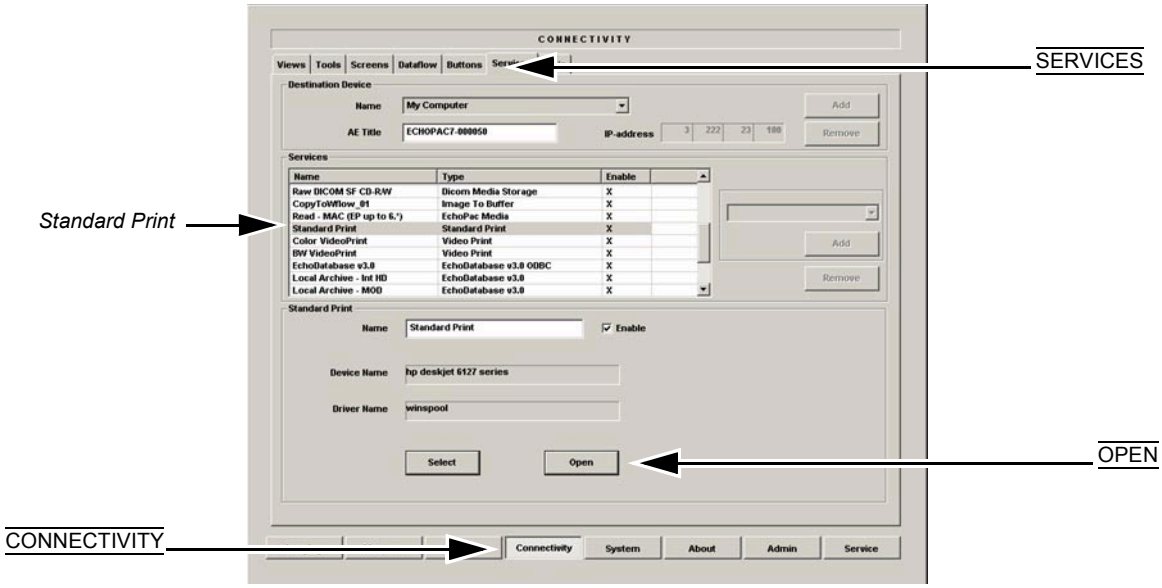



**Figure 3-27 Choosing Standard Print**

7.) Select *Printer*.

8.) Select *Set as Default Printer*.

9.) Close Window.

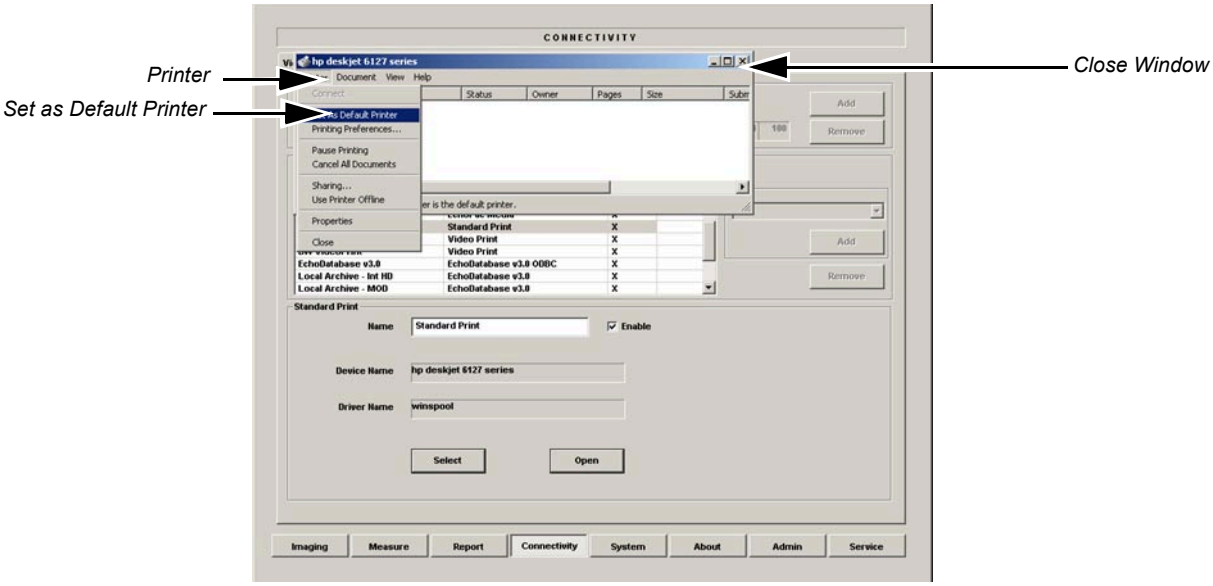



**Figure 3-28 Set as Default Printer**

## 3-7-2 Verify IP and Port Settings EchoPAC PC

1.) Select CONNECTIVITY.
2.) Select ADDITIONAL OUTPUTS.
3.) Select *Standard Printer Settings*.
4.) Select OPEN.

*NOTE:* **With SW v2.3.0, steps 2 and 3 have the following text "**2.) Select SERVICES.**,and** 3.) Select *Standard Print*.**"**

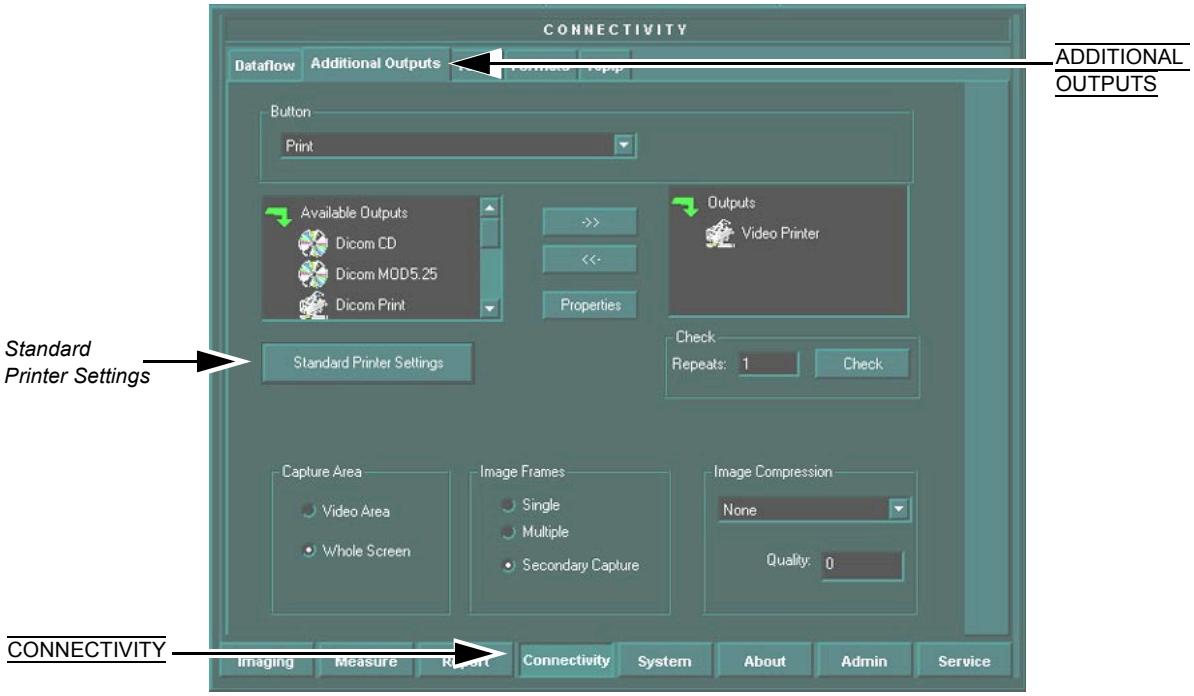



**Figure 3-29 Choosing Standard Print**

5.) Select *Printer*.
Select *Properties*.

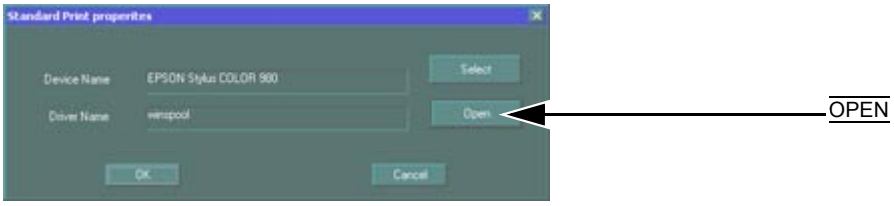



**Figure 3-1 Standard Printer Settings Dialog**

## 3-7-2 Verify IP and Port Settings EchoPAC PC (cont'd)

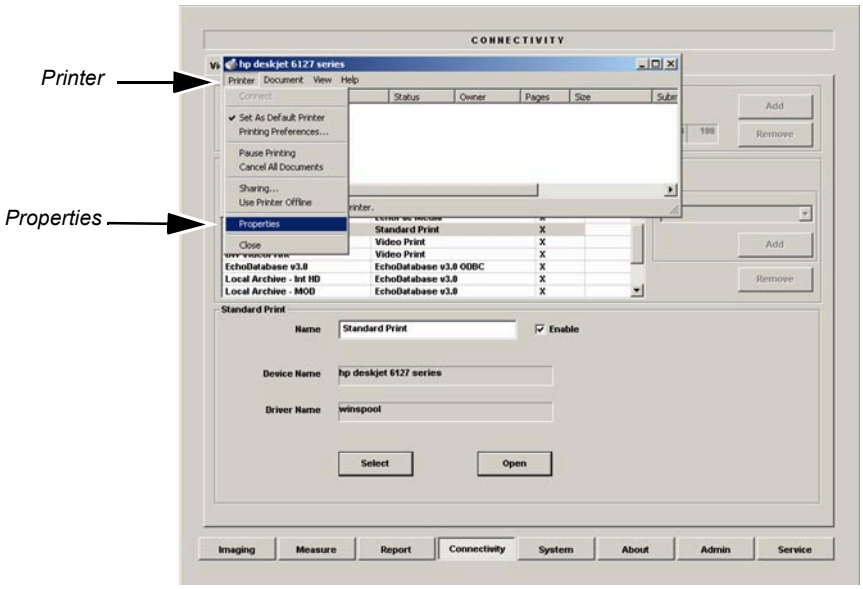



**Figure 3-30 Properties**

## 3-7-2 Verify IP and Port Settings EchoPAC PC (cont'd)

6.) Select Ports TAB and select *Standard TCP\IP Port HP Deskjet 6127* series.

7.) Select CONFIGURE PORT.

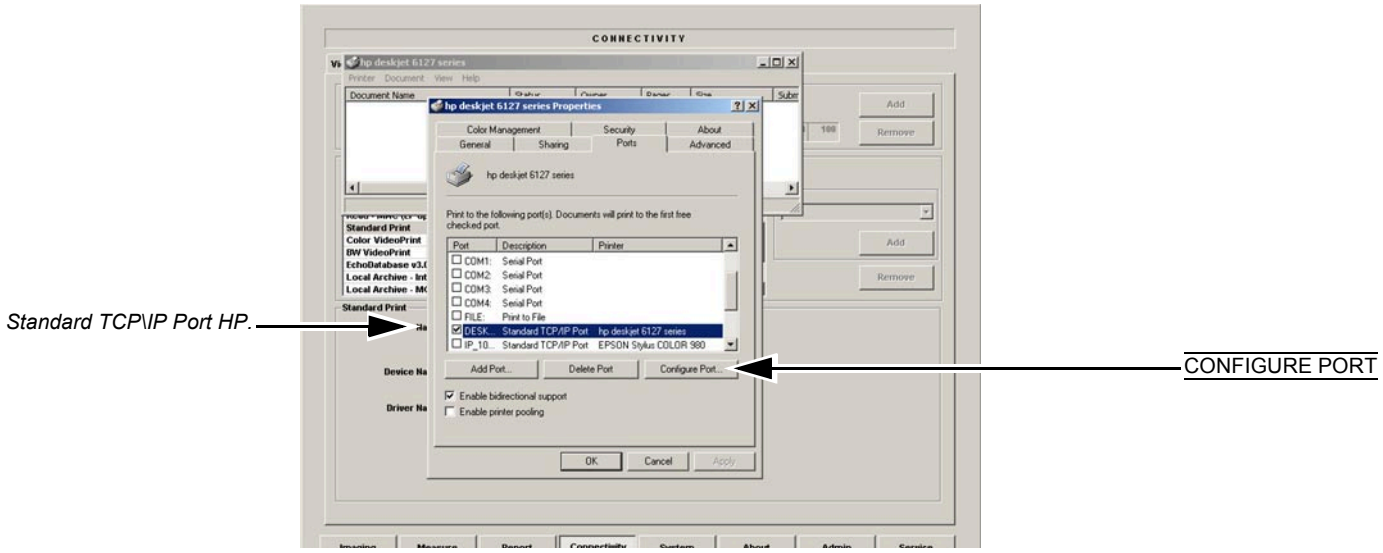



**Figure 3-31 Configure Port**

8.) .Obtain an IP Address and a Port Number from the Network Administrator or from studying the configuration of other PCs or Systems that already are configured for the printer.

9.) Enter the IP-Address in the field for Printer Name or IP- address.

10.) Select *Raw.*

11.) Select and Edit *Port Number*.

12.) Select OK.

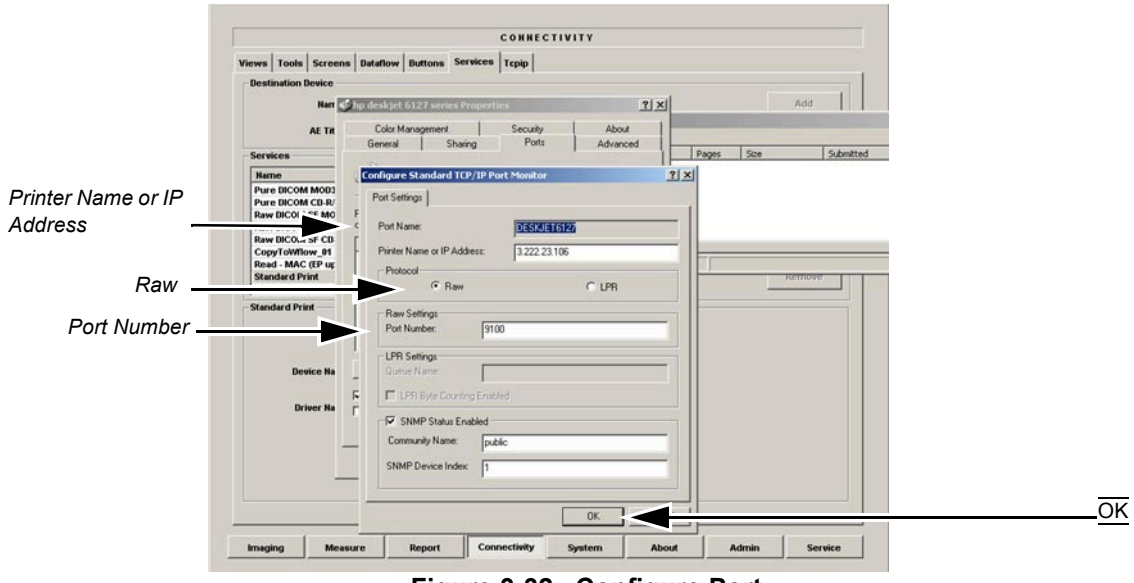



**Figure 3-32 Configure Port**

13.) Close rest of the Windows by selecting OK.

## 3-7-3 Check Printer Operation on EchoPAC PC

1.) Verify that Printer Power is ON.

2.) Insert paper in Printer.

3.) Select user *adm*, then select LOG ON.

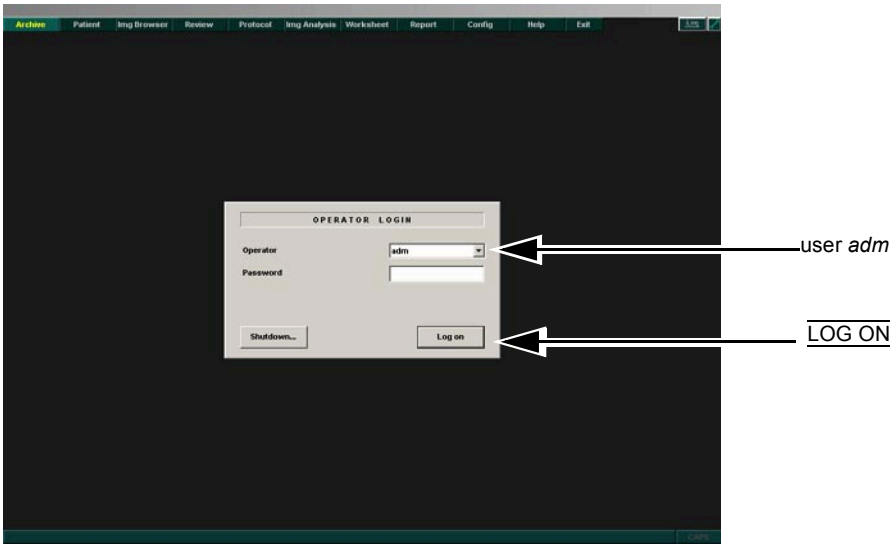



**Figure 3-33 Logon Window in the EchoPAC PC application**

4.) Enter *Last Name* and *Patient ID*. Select CREATE PATIENT.

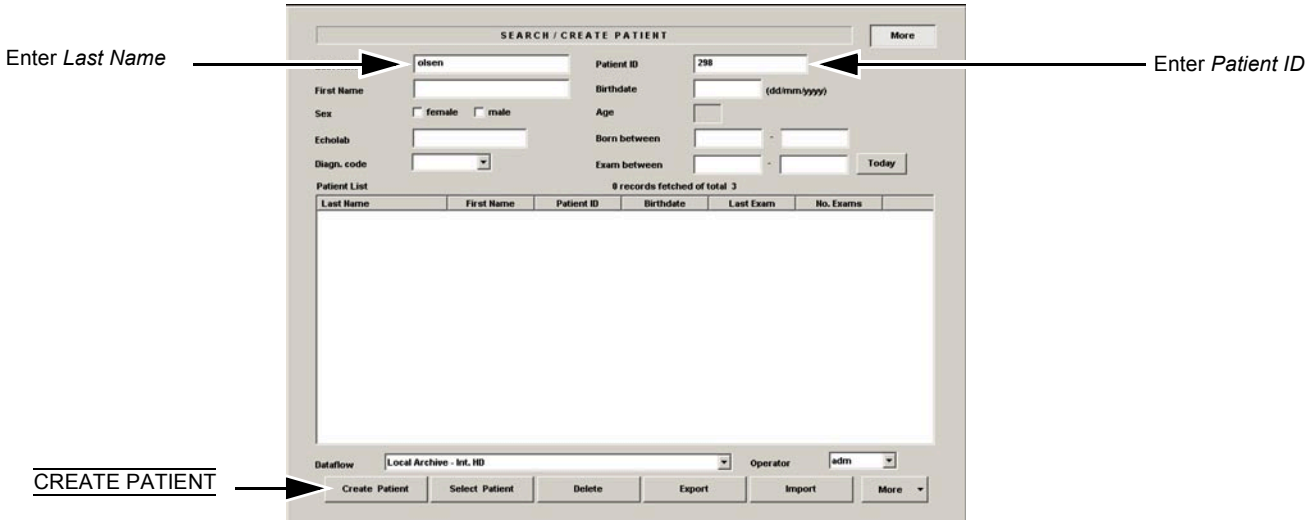



**Figure 3-34 Create new Patient**

## 3-7-3 Check Printer Operation on EchoPAC PC (cont'd)

5.) Select REPORT.

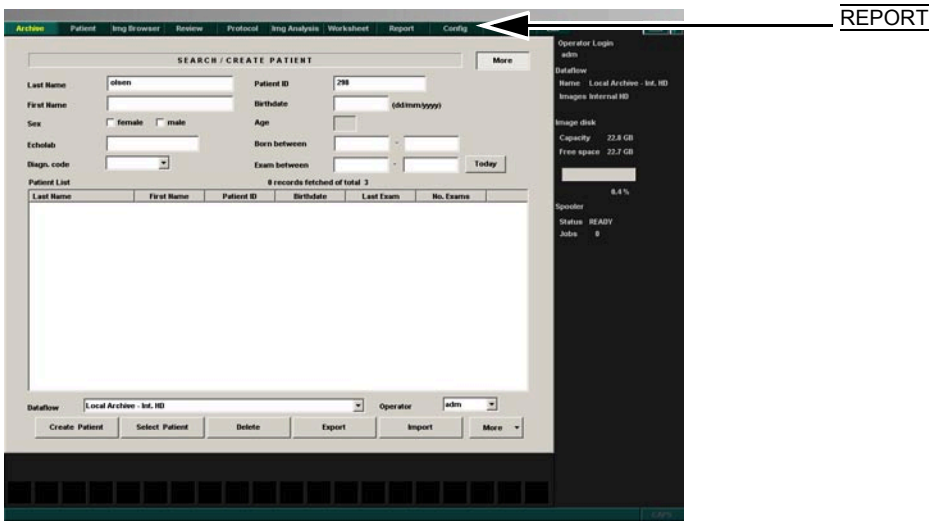



**Figure 3-35 Select Report**

6.) Select MORE.

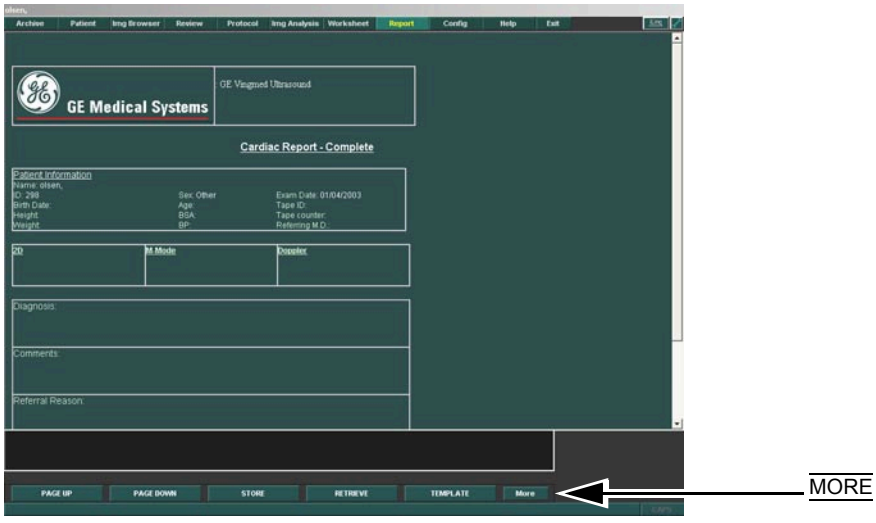



**Figure 3-36 Select More**

## 3-7-3 Check Printer Operation on EchoPAC PC (cont'd)

7.) Select PRINT.

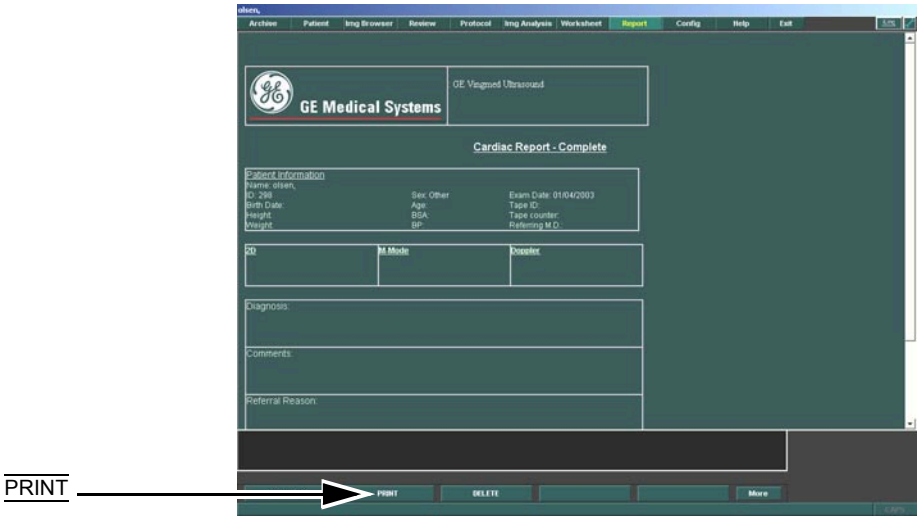



**Figure 3-37 Select Print**

If this page is printed, then HP Deskjet 6127 works successfully.

# Section 3-8
# Configure EchoPAC PC for a New Printer

**NOTICE** This section is only used for connecting a new printer to an existing network

## 3-8-1 Preparations

1.) Make sure the printer is connected to the same network as your EchoPAC PC either by using direct connect (crossed cable) or “the wall”.

2.) Make sure the printer is turned on, ink and paper has been loaded.

## 3-8-2 Run Installation Wizard

1.) Start up EP (no need of service dongle).

2.) Logon as adm.

3.) Enter config, service and select printer model “HP6127” from the Network Printer drop down list.

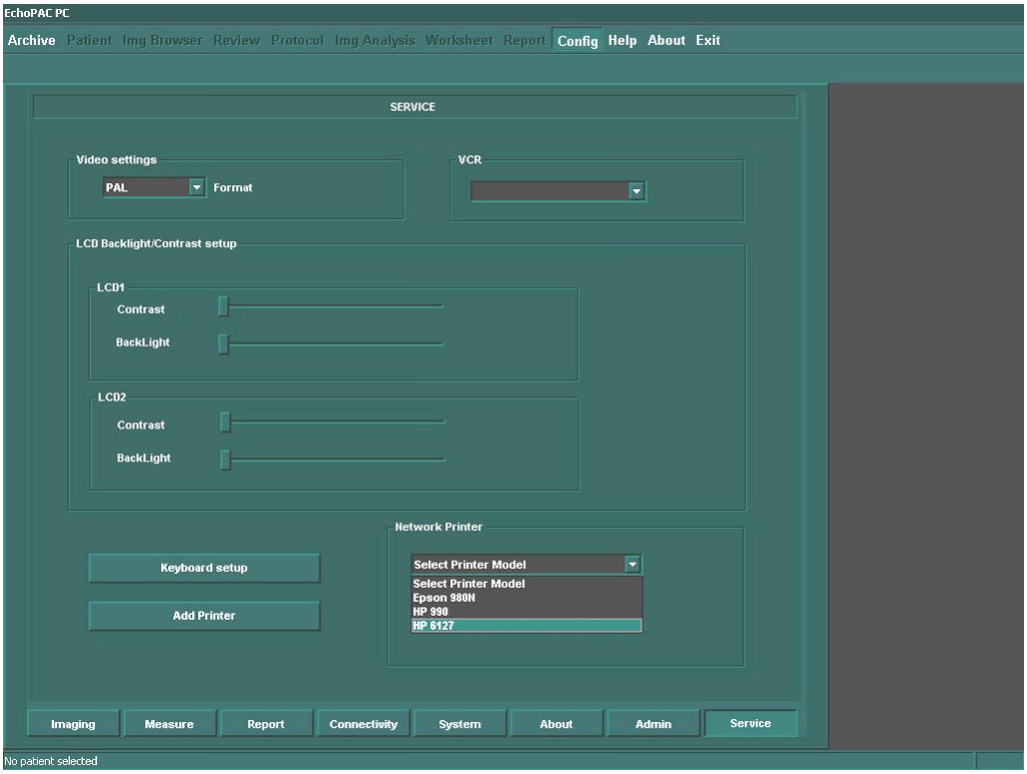



**Figure 3-38 Selecting the HP6127 Printer**

## 3-8-2 Run Installation Wizard (cont'd)

4.) Select the button "Start Setup Program".

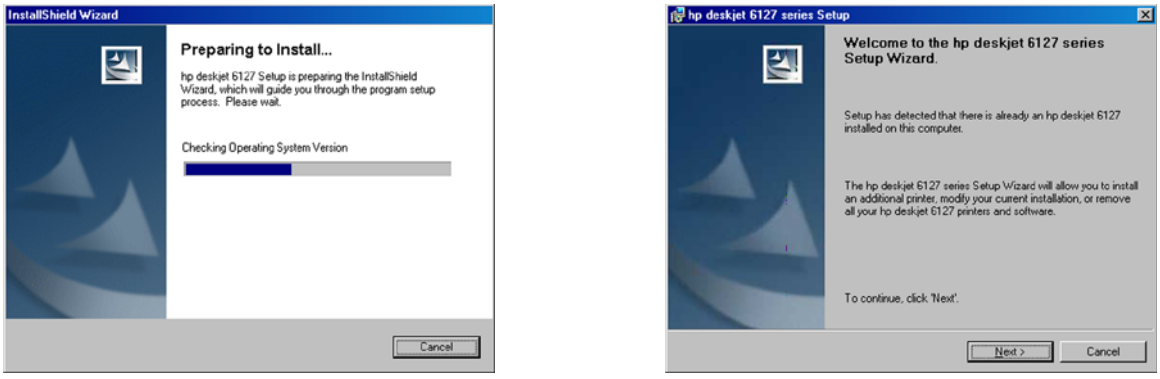



**Figure 3-39 Setup Program starts**

5.) Select next.

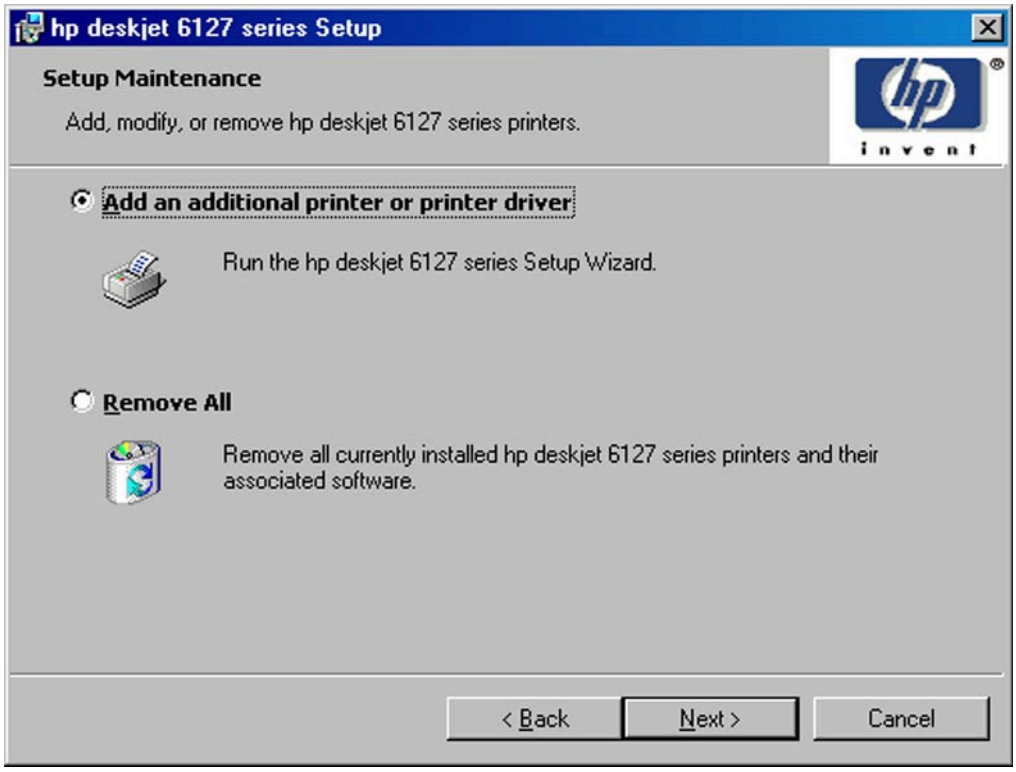



**Figure 3-40 Setup maintenance type selection**

6.) Select "Add an additional printer or printer driver", and Select next.

## 3-8-2 Run Installation Wizard (cont'd)

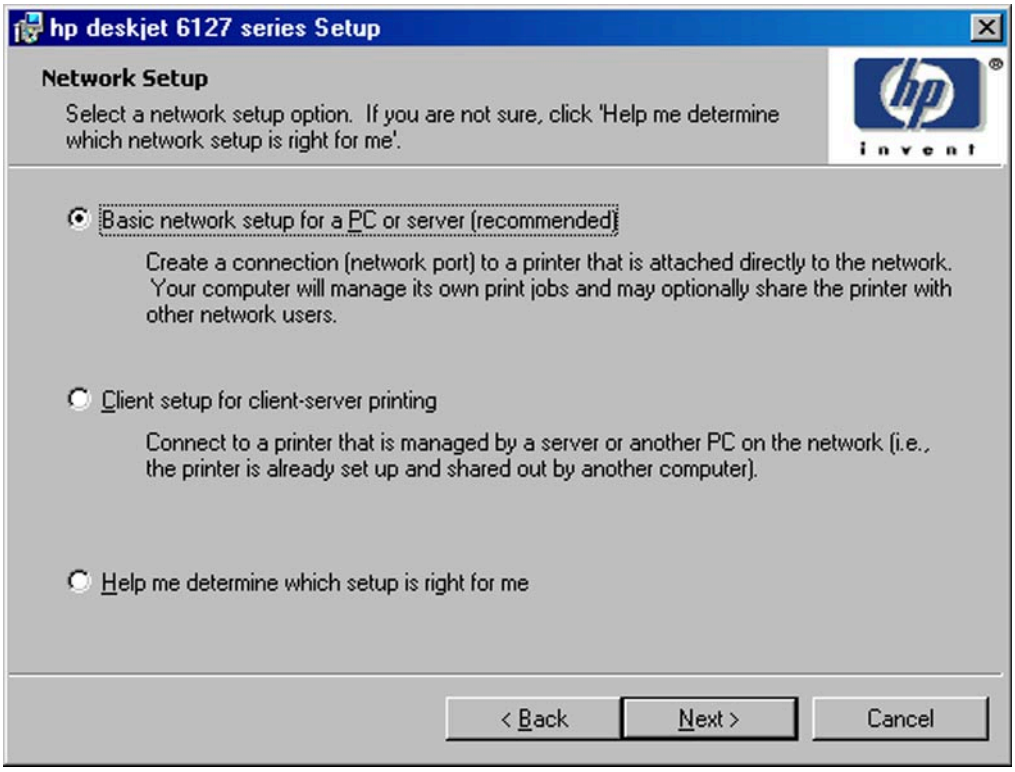



**Figure 3-41 Network setup selection**

7.) Select "Basic network setup for a PC or server (recommended), and Select next.

## 3-8-2 Run Installation Wizard (cont'd)

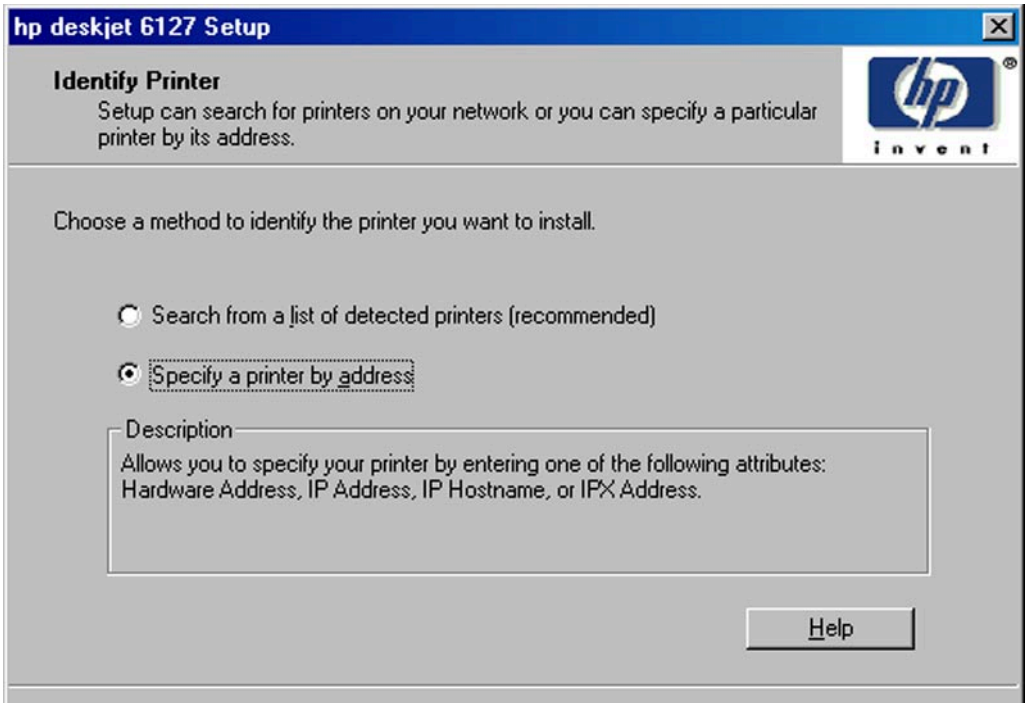



**Figure 3-42 Printer specification addressing selection**

8.) Select "Specify a printer by address", and Select next.

## 3-8-2 Run Installation Wizard (cont'd)

9.) Locate the printers hardware address at the rear cover of the printer.

**Figure 3-1 Obtaining The Hardware Address**

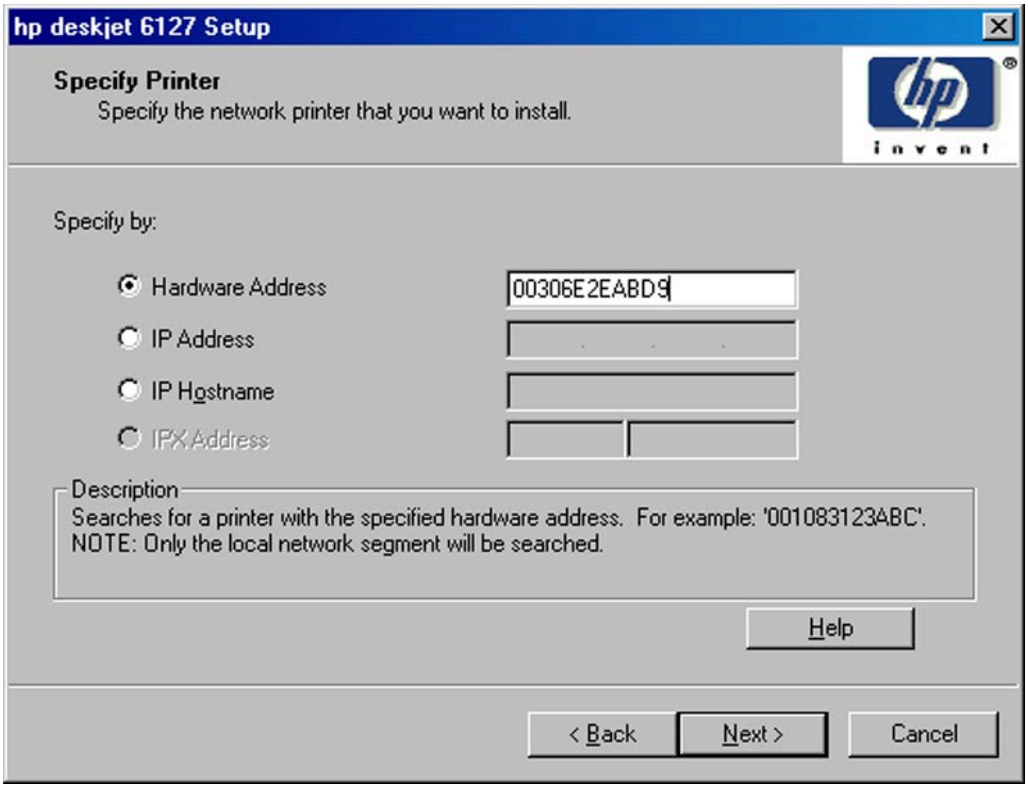



**Figure 3-43 Printer Hardware Address insertion**

10.)Enter the hardware address in the field "Hardware Address", and Select next.

## 3-8-2 Run Installation Wizard (cont'd)

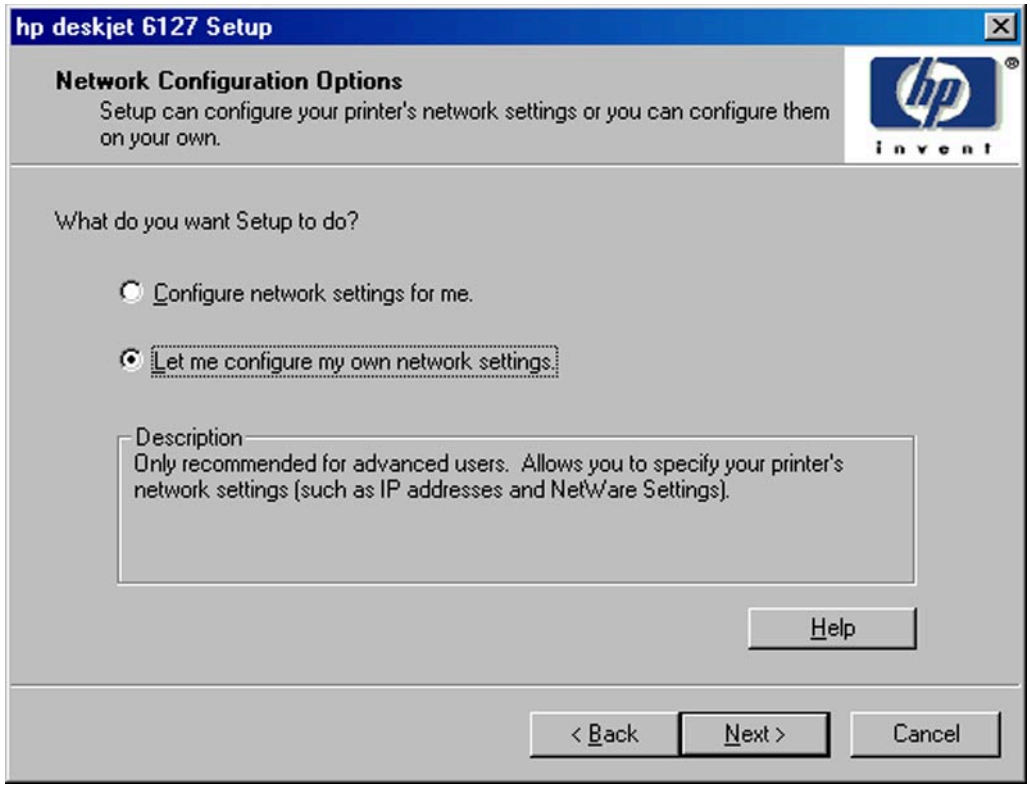



**Figure 3-44 Manual network Configuration selection**

11.) Select "Let me configure my own network settings.

## 3-8-2 Run Installation Wizard (cont'd)

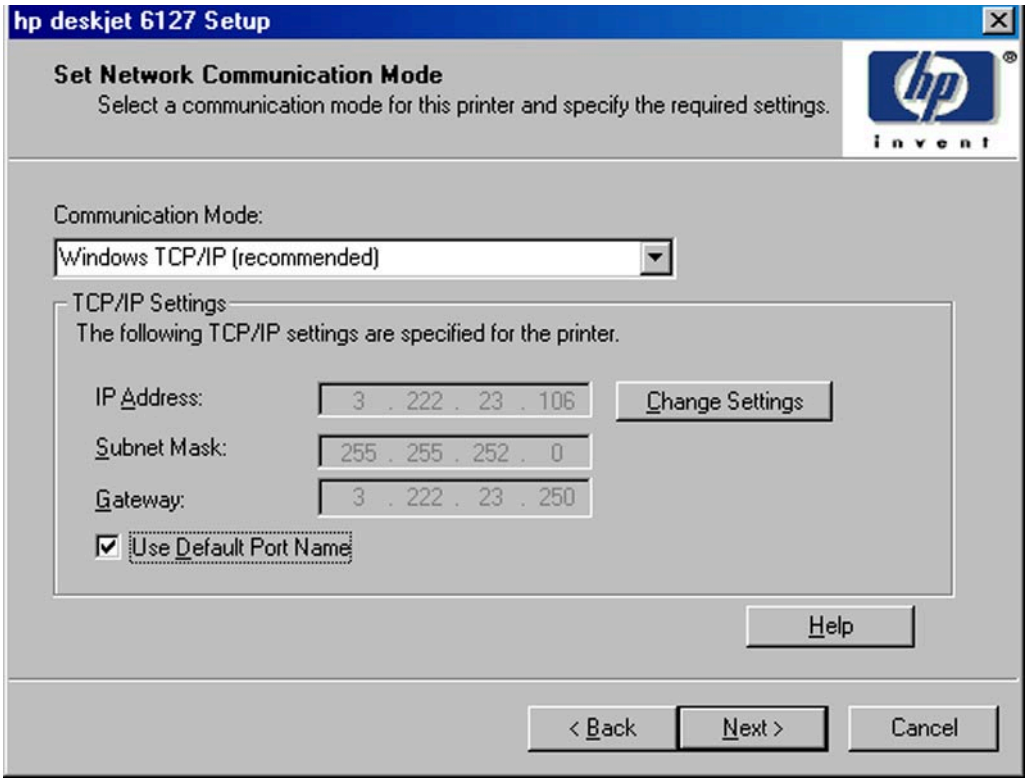



**Figure 3-45 Network setting**

12.) If this is a first time installation of the printer you probably need to change the TCP/IP settings for the printer.

13.) Select the button "Change Settings".

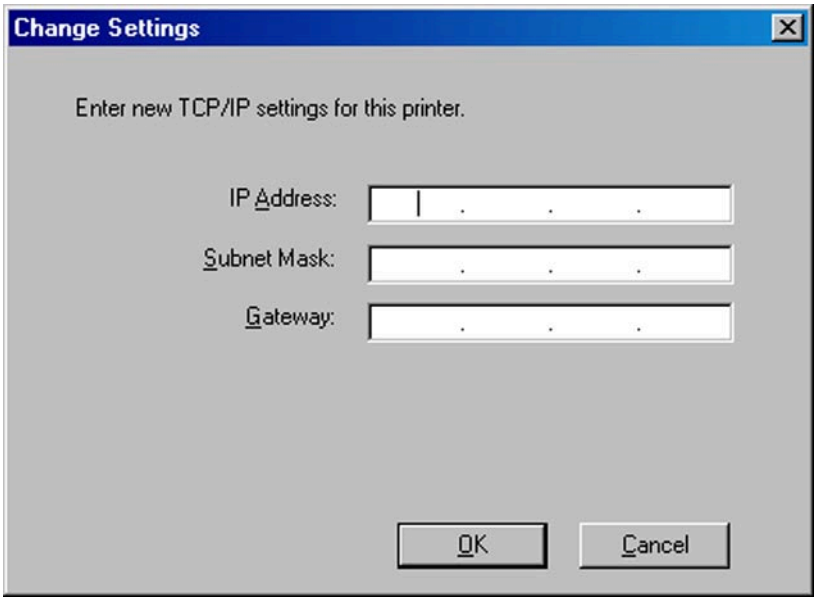



**Figure 3-46 Settings changing**

## 3-8-2 Run Installation Wizard (cont'd)

14.) Enter the correct TCP/IP settings for the printer, and Select OK.

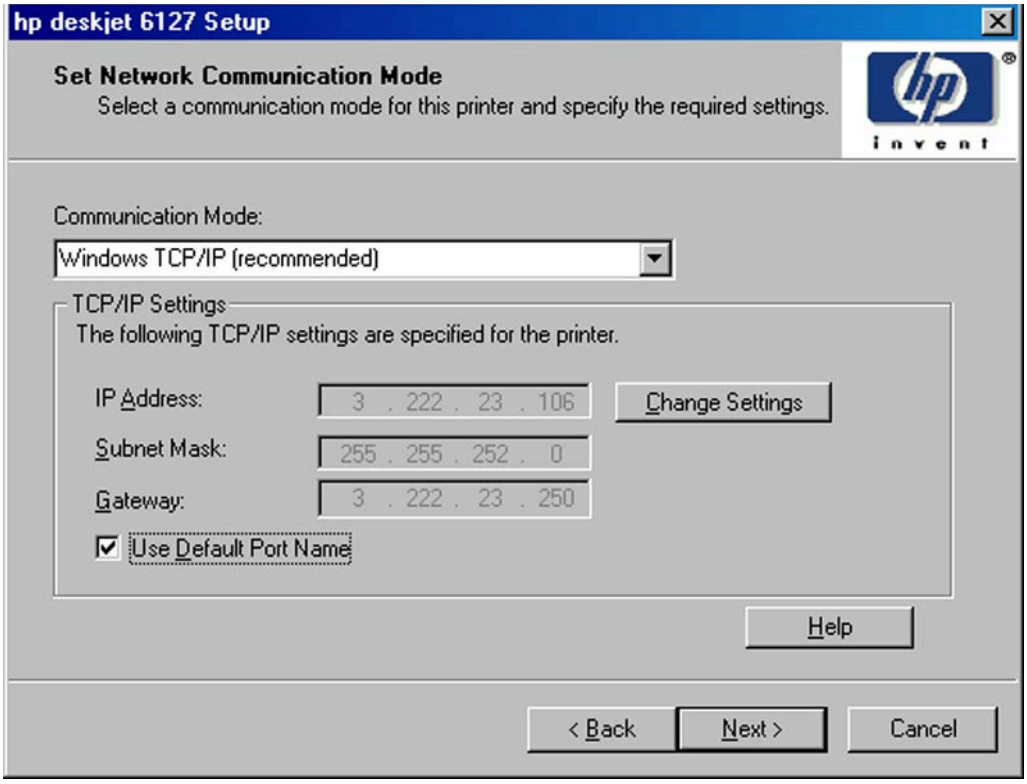



**Figure 3-47 Network communication settings result verification**

15.) Verify correct TCP/IP settings, and Select next.

## 3-8-2 Run Installation Wizard (cont'd)

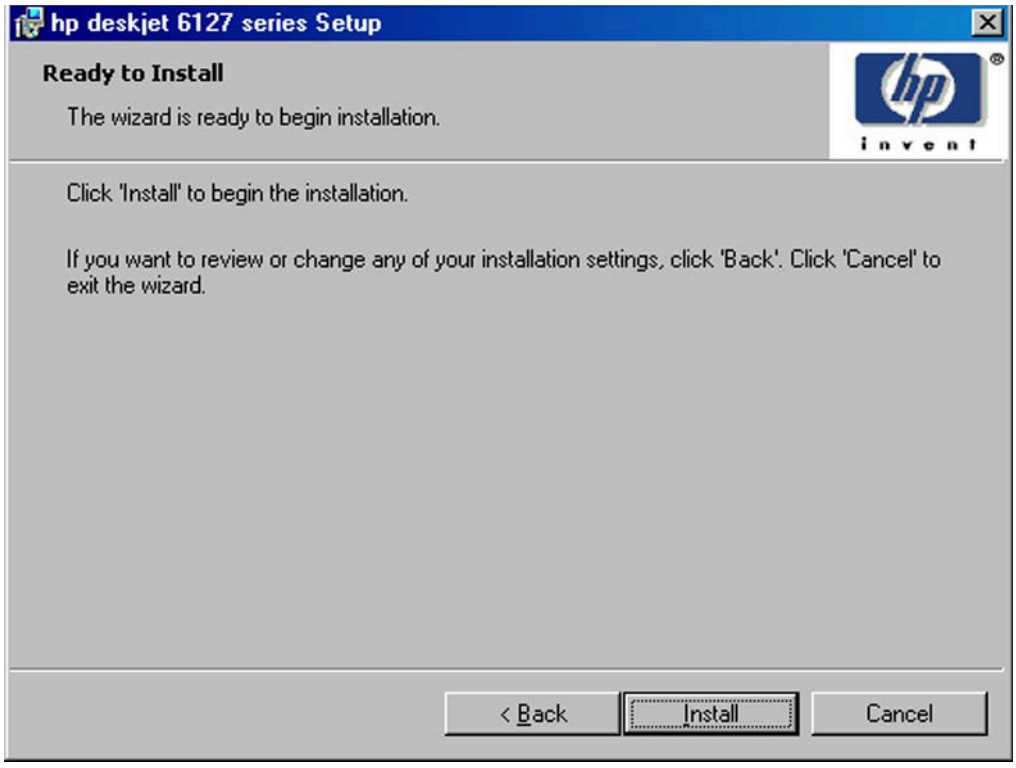



**Figure 3-48 Start Installation**

16.)Select "Install".

## 3-8-2 Run Installation Wizard (cont'd)

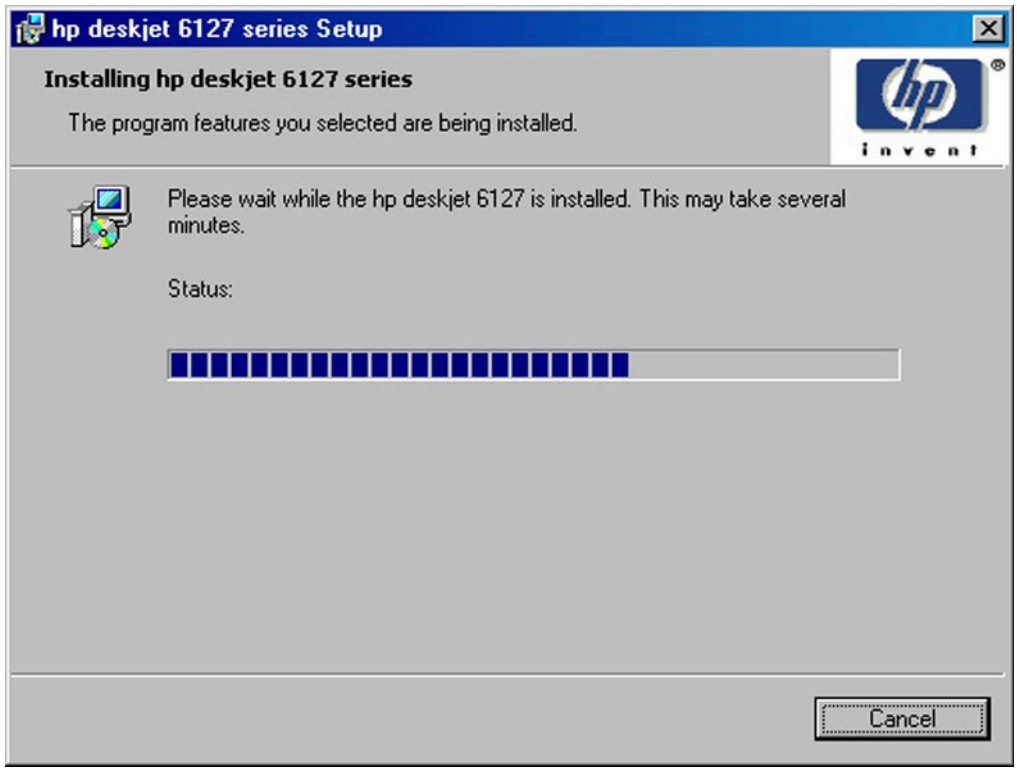



**Figure 3-49 Installation Progress**

17.) Select the "Print a test page" check box, and Select "Finish".

18.) Verify that a test page is printed correctly from the HP6127 printer.

## 3-8-3 Set up Printer as Default Printer for EchoPAC PC

1.) Select CONNECTIVITY.
2.) Select ADDITIONAL OUTPUTS.
3.) Select *Standard Printer Settings*.
4.) Select SELECT.

*NOTE:* **With SW v2.3.0, steps 2 and 3 have the following text "**2.) Select SERVICES.**,and** 3.) Select *Standard Print*.**"**

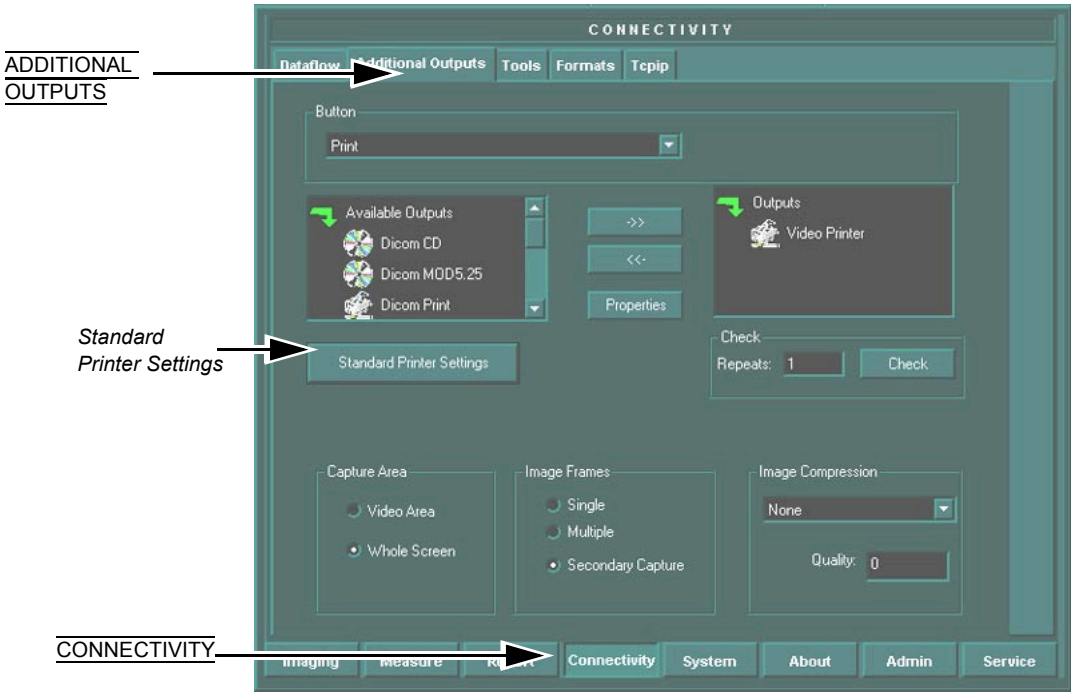



**Figure 3-50 Choosing Standard Print**

5.) Select HP Deskjet 6127 in the Scroll Window.and Select OK.

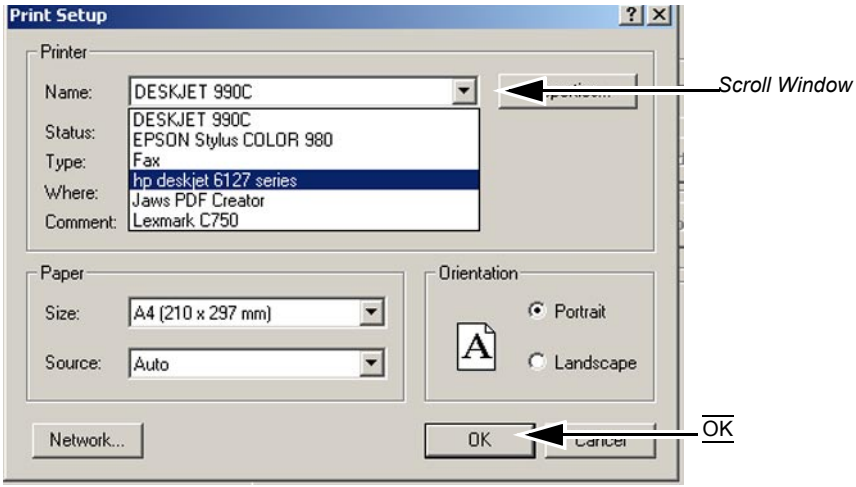



**Figure 3-51 Print Setup**

## 3-8-3 Set up Printer as Default Printer for EchoPAC PC (cont'd)

6.) Select *Standard Print*.

7.) Select OPEN.

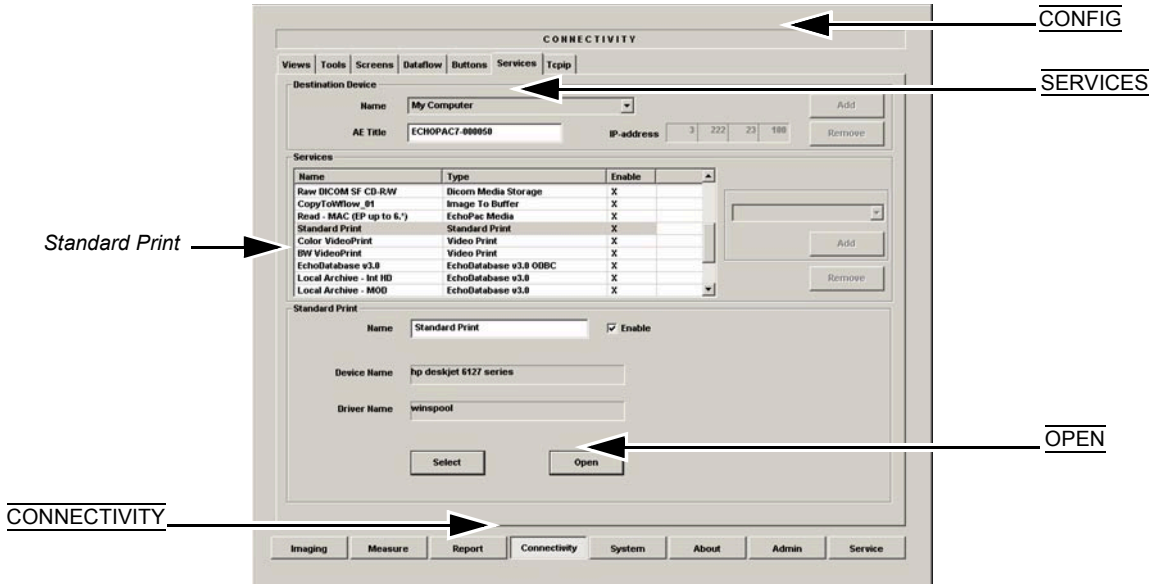



**Figure 3-52 Choosing Standard Print**

8.) Select *Printer*.

9.) Select *Set as Default Printer*.

10.) Close Window.

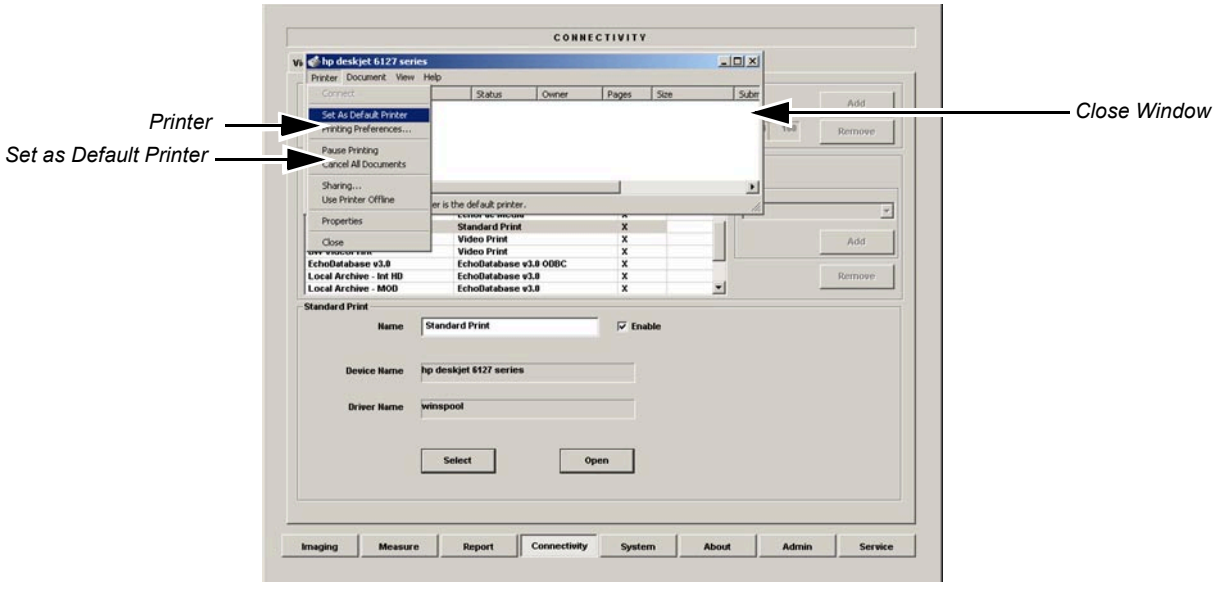



**Figure 3-53 Set as Default Printer**

### 3-8-4 Check Printer Operation On EchoPAC PC

Proceed as described in 3-7-3 on page 3-27

# Chapter 4 Maintenance

## Section 4-1 Overview

This chapter contains instructions on how to replace Print Cartridges.

**Table 4-1 Contents in Chapter 4**


| Section | Description | Page Number |
|---|---|---|
| 4-1 | Overview | 4-1 |
| 4-2 | Print Cartridge Replacement Procedure | 4-2 |

# Section 4-2
# Print Cartridge Replacement Procedure

## 4-2-1 Prerequisite

- Print Cartridge Black: HP51645 Series or HP No. 45.
- Print Cartridge Tri-color: HP6578 Series or HP No. 78.

## 4-2-2 Preparations

1.) Make sure Paper Out Tray is in down position.
2.) Power ON.

**Figure 4-1 HP DeskJet Network Printer**

## 4-2-3 Removal Procedure

1.) Raise the front cover. This makes Print Cartridge Cradle move in position for maintenance.

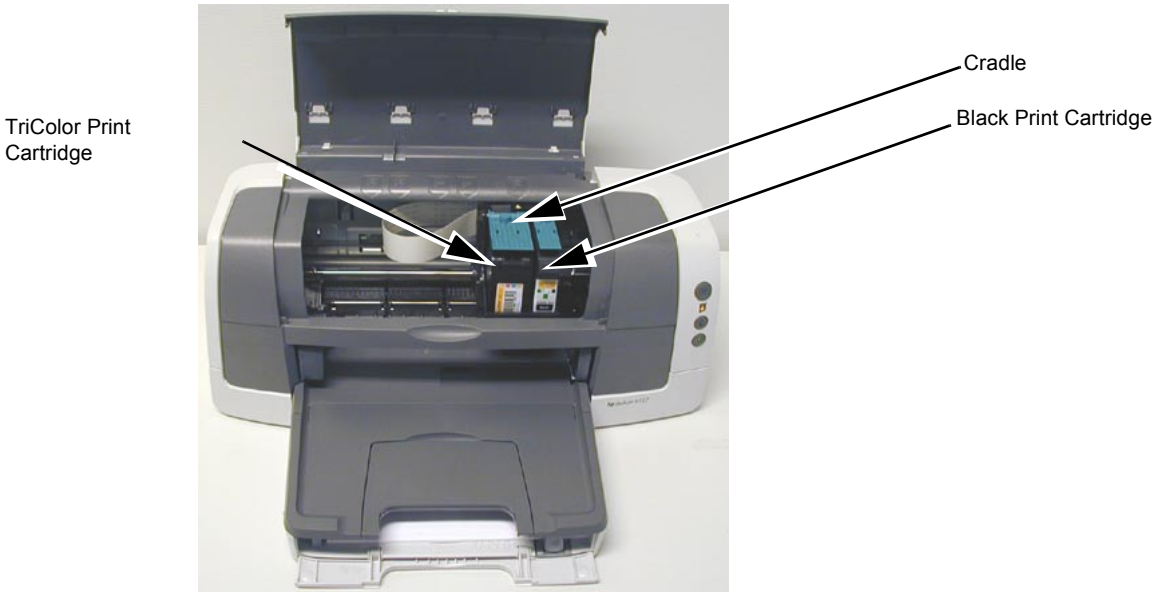



**Figure 4-2 Open Cover and Cradle in position**

2.) Open Cradle Latch

3.) Remove Print Cartridge upwards. The bigger TriColor cartridge, to the left of the black cartridge, is removed the same way.

.

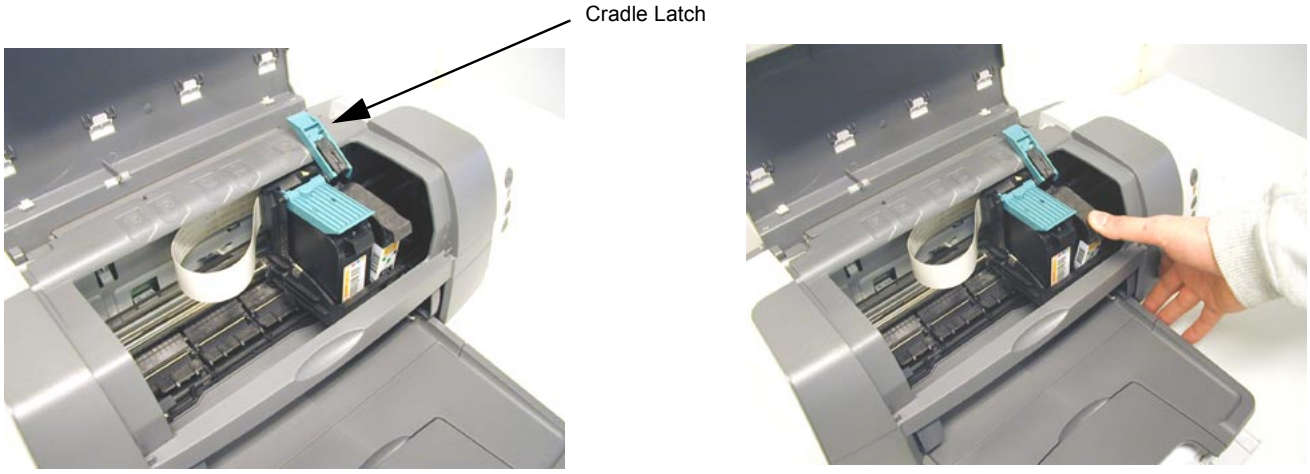



**Figure 4-3 Replace black Print Cartridge**

## 4-2-4 Installation Procedure

1.) Remove protective tape from new Print Cartridge

.

**Figure 4-4 Remove protective tape**

*NOTE: Do not touch ink nozzles or electrical copper contacts on Print Cartridge.*

2.) Put Print Cartridge strait down into the Cartridge Cradle.
3.) Close Cradle Latch. It clicks into locked position.
4.) Close Top Cover.

## 4-2-5 Automatic Verification

1.) After a Print Cartridge replacement, HP DeskJet 990Cxi automatically prints out a calibration test sheet. If a printing has been interrupted to replace Print Cartridge, the printer software will execute the calibration test after finishing the interrupted printing job.

2.) Verify that Calibration test sheet is OK.

**Figure 4-5 Calibration Printout**

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